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OM nucleic - nucleic search, using sw model

Run on: November 11, 2005, 06:34:39 ; Search time 271.197 Seconds  
(without alignments)  
9430.425 Million cell updates/sec

Title: US-08-842-827-1  
Perfect score: 1563  
Sequence: 1 CCTGTGGAGAGAGCCGCG.....CCAAAAA.....1563

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2403568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA:  
1: /cgn2\_6/ptodata/1/ina/5A COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1170.6	74.9	1315	3	US-08-992-035A-2
2	285	17.0	286	4	US-09-016-434-322
3	253.2	16.2	1303	4	US-09-566-921-117
4	225.4	14.4	231	3	US-09-439-313-456
5	225.4	14.4	231	3	US-09-352-616A-456
6	225.4	14.4	231	4	US-09-636-215-456
7	225.4	14.4	231	4	US-09-585-166A-456
8	225.4	14.4	231	4	US-09-679-426-456
9	225.4	14.4	231	4	US-09-759-143-456
10	225.4	14.4	231	4	US-09-651-236-456
11	218	13.9	272	4	US-09-360-376-28
12	151	9.7	151	3	US-09-439-313-316
13	151	9.7	151	3	US-09-352-616A-316
14	151	9.7	151	3	US-09-232-149A-316
15	151	9.7	151	4	US-09-636-215-316
16	151	9.7	151	4	US-09-685-166A-316
17	151	9.7	151	4	US-09-688-489-316
18	151	9.7	151	4	US-09-679-426-316
19	151	9.7	151	4	US-09-759-143-316
20	151	9.7	151	4	US-09-651-236-316
21	137.2	8.8	472	4	US-09-702-705-273
22	137.2	8.8	472	4	US-09-736-457-273
23	137.2	8.8	472	4	US-09-614-124B-273
24	137.2	8.8	472	4	US-09-671-325-273
25	137.2	8.8	472	4	US-09-589-184-273
26	137.2	8.8	472	4	US-09-658-824-273
27	135.6	8.7	434	4	US-09-702-705-1590

Sequence 1590, Ap  
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Sequence 1590, Ap  
Sequence 1590, Ap  
Sequence 342, App  
Sequence 342, App  
Sequence 342, App  
Sequence 342, App  
Sequence 342, App  
Sequence 342, App  
Sequence 4, Appli  
Sequence 282, App  
Sequence 11662, A  
Sequence 301, App  
Sequence 119, App  
Sequence 16038, A  
Sequence 8928, Ap

## ALIGNMENTS

RESULT 1  
US-08-992-035A-2  
; Sequence 2, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/992,035A  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1315 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT06  
; CLONE: 1719418  
; US-08-992-035A-2

Query Match 74.9%; Score 1170.6; DB 3; Length 1315;  
Best Local Similarity 93.8%; Pred. No. 2.3e-312;  
Matches 1231; Conservative 0; Mismatches 79; Indels 3; Gaps 1;



Qy	909	ATGAAGGGAGACTGGGCAAGACTCTTACGCCCCACACTGCNAATTGGTCTTTGTGGCGTA	968
Db	61	ATGAAGGGAGACTGGGCAAGANTCTTACGCCCCACACTGCAAAATTGGTCTTTGTGGCGTA	120
Qy	969	TCCAATTATATGFGGCCCTTTTCGAGTTCTTGATTATAAACACCACCTCGAGCGATGCTTG	1028
Db	121	TCCAATTATATGFGGCCCTTTTCGAGTTCTTGATTATAAACACCACCTCGAGCGATGCTTG	180
Qy	1029	ACTGGACTCATTTACGGGAGCTCTGGTTGCAATATTAGTTGCTGATATGATCGGATTC	1088
Db	181	ACTGGACTCATTTACGGGAGCTCTGGTTGCAATATTAGTTGCTGATATGATCGGATTC	240
Qy	1089	TTCAAAGAAGAACTCTCTTTTAAAGA	1114
Db	241	TTCAAAGAAGAACTCTCTTTTAAAGA	266

### RESULT 3

```

US-09-566-921-117
; Sequence 117, Application US/09566921
; Patent NO. 6682888
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.
; APPLICANT: Tingley, Debora W.
; APPLICANT: Edwards, Carla M.
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
; FILE REFERENCE: PA-0024 US
; CURRENT APPLICATION NUMBER: US/09/566,921
; CURRENT FILING DATE: 2000-05-05
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PERL Program
; SEQ ID NO 117
; LENGTH: 1303
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6682888 202234.2
US-09-566-921-117

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Query Match	16.2%	Score 253.2;	DB 4;	Length 1303;
Best local Similarity	58.7%;	Pred. No. 2.8e-59;		
Matches 457;	Conservative 0;	Mismatches 318;	Indels 3;	Gaps 1;
Qy	352	AGACGGCGCTGCGGTACGTGCGCCCTCGATGCTGCTCGGTGTTGCTCGCTGGATTGCGCTT	411	
Db	83	AGCGAGGTGGGCTTCGTGCTGCTCGAGCTGCTGCTTACTGTCGCTCCCTCCCTGCCCT	142	
Qy	412	TTGCAATTCCTTACCTTCAAGGCAATACCCCTTCCAAAGGAGGATATTCGTAATGATGAGT	471	
Db	143	TCGCTATTCCTGACGCTGGTGAAGCCGCCGCTACAAGCGAGGATTTTACTGCGGGGATGACT	202	
Qy	472	CCATCAAGTACCCCTTACAAAGAGACACCATACCTTATGCTTATTAGTGGGAATATCA	531	
Db	203	CCATCCGTTACCCCTACCGTCCAGATACATACCCAGCGCTCATGGCTGGGGTACCA	262	
Qy	532	TTCAATTCAGTAATTCGTTTATTTCTTGGAGAAACCTGTCTGTTTACTGTAACTTTT	591	
Db	263	TCACGGCACCGTTCATCTTGTCTCGCGCGGGAAGCTACCTGGTGTACACAGACC---	319	
Qy	592	TGCACTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTATTTACAAAGCCATTGGAA	651	
Db	320	GGCTCTAATTCGGTCCGACTTCAAACAATACGTGGCTGCTGTATACAGGTGCTGGGGA	379	
Qy	652	CCTTTTTATTTGGTGACGCTGCTAGTCAGTCCCTGACTGACATTCGCCAAGTATTTCAATAG	711	
Db	380	CCTTCTCTGTTTGGGGCTGCGCGTAGCCAGTCTCTGACAGACCTGGCCAAGTACATGATTG	439	
Qy	712	GCAGACTGCGGCCTCACTTCTTGATGTTTGTGATCCAGATTGGTCAAAATCAACTGCA	771	
Db	440	GGGCTCTGAGGCCCACTTCTTACCGCTCTGCGACCCCGACTGGAGCCGGGTCAACTGCT	499	
Qy	772	GCATGGTTACATTTGAATACTACATATGTCCAGGGAATGCAGAAAGAGTTTAAAGCAAGCA	831	

Db	500	CGGTCTATGTGTCAGCTGGAGAAGGTGTGCAGGGGAAACCCCTGCTGTGATGTCAACCGAGGCCA	559
Qy	832	GGTTGTGCTCTTCTATTTCAGGCACACTCTTCGTTTTCCATGTACTGCATGCTGTTTCTGTGCAC	891
Db	560	GGTTGTGCTTCTTCTACTCGGACACTCTCTCTTTGGGATGTACTGCATGGTGTCTTTGTGTGC	619
Qy	892	TTTATCTTCAAGCCAGGATGAAGGGAGACTGGGCAAGACTCTTACGGCCCCACACACTGCAAT	951
Db	620	TGTATGTGCAGGCACGACTCTGTTGGAAAGTGGCACGGCTGCTGCGACCCACACAGTCCAGT	679
Qy	952	TTGTCCTTGTTCGGTATCCATTATGTGGGCCCTTTCTCGAGTTTCTGATTTATAAACACC	1011
Db	680	TCCTTCCTGGTGGCCCTTTGGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTTACAAACACC	739
Qy	1012	ACTGGAGCGATGTGTTCACTGGACTCAATCAGGGAGCTCTGGTTGCAATATTAGTTGCTG	1071
Db	740	ACTGGAGCGATGTCTTGTGTCCTCTCGAGGGGACACTGGTGGCTGCGCCCTCACTGTCT	799
Qy	1072	TATATGATCGGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGAGGAGA	1129
Db	800	GCTACATCTCAGACTTCTTCAAGCCCGACCCCCACAGCACTGTCTCAAGAGGAGAGA	857

## RESULT 4

```

US-09-439-313-456
; Sequence 456, Application US/09439313
; Patent NO. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-439-313-456

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	Query Match	14.4%	Score 225.4	DB 3	Length 231
	Best Local Similarity	99.6%	Pred. No. 4.4e-52		
	Matches 226	Conservative 0	Mismatches 1	Indels 0	Gaps 0
Qy	476	CAAGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAAATAATCATTTCC	535		
Db	5	CAGGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAAATAATCATTTCC	64		
Qy	536	ATTCAGATTATTCGTTATTATTCCTTGAGAAACCCCTGTCGTGTTATCTGTAAACCTTTTGCA	595		
Db	65	ATTTCAGATTATTCGTTATTATTCCTTGAGAAACCCCTGTCGTGTTATCTGTAAACCTTTTGCA	124		
Qy	596	CTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTATTTCACAAAGCCATTGGAAACCTT	655		
Db	125	CTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTATTTCACAAAGCCATTGGAAACCTT	184		
Qy	656	TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTTGCCAAGT	702		
Db	185	TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTTGCCAAGT	231		

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RESULT 5
US-09-352-616A-456
; Sequence 456, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-352-616A-456

Query Match      14.4%; Score 225.4; DB 3; Length 231;
Best Local Similarity 99.6%; Pred. No. 4.4e-52;
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 CAAGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 535
Db 5 CAGGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64

QY 536 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 655
Db 65 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 124

QY 596 CTCAAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184
Db 125 CTCAAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184

QY 656 TTTATTTGGTGCGAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 702
Db 185 TTTATTTGGTGCGAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 231
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RESULT 6
US-09-636-215-456
; Sequence 456, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-636-215-456

Query Match      14.4%; Score 225.4; DB 4; Length 231;
Best Local Similarity 99.6%; Pred. No. 4.4e-52;
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 CAAGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 535
Db 5 CAGGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64

QY 536 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 595
Db 65 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 124

QY 596 CTCAAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 655
Db 125 CTCAAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184

QY 656 TTTATTTGGTGCGAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 702
Db 185 TTTATTTGGTGCGAGCTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 231
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RESULT 7
US-09-685-166A-456
; Sequence 456, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-685-166A-456

Query Match      14.4%; Score 225.4; DB 4; Length 231;
Best Local Similarity 99.6%; Pred. No. 4.4e-52;
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 CAAGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 535
Db 5 CAGGTACCCCTTACAAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64

QY 536 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 595
Db 65 ATTCAATTCCTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 124
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Db 65 ATTGAGTATTATCGTTATTATTCTTGAGAAACCCCTCTGTGTACTGTAAACCTTTTGCA 124  
Qy 596 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 655  
Db 125 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 184  
Qy 656 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 702  
Db 185 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 231

## RESULT 8

US-09-679-426-456  
; Sequence 456, Application US/09679426  
; Patent No. 6759515

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER  
; FILE REFERENCE: 210121.427C20  
; CURRENT APPLICATION NUMBER: US/09/679,426  
; CURRENT FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 895  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 456  
; LENGTH: 231  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-679-426-456

Query Match 14.4%; Score 225.4; DB 4; Length 231;  
Best Local Similarity 99.6%; Pred. No. 4.4e-52;  
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 476 CAAGTACCCCTTACAAAGAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 535  
Db 5 CAGGTACCCCTTACAAAGAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64  
Qy 536 ATTGAGTATTATCGTTATTATTCTTGAGAAACCCCTGTCTGTTTACTGTAAACCTTTTGCA 595  
Db 65 ATTGAGTATTATCGTTATTATTCTTGAGAAACCCCTGTCTGTTTACTGTAAACCTTTTGCA 124  
Qy 596 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 655  
Db 125 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 184  
Qy 656 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 702  
Db 185 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 231

## RESULT 9

US-09-759-143-456  
; Sequence 456, Application US/09759143  
; Patent No. 6800746

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER  
; FILE REFERENCE: 210121.427C23  
; CURRENT APPLICATION NUMBER: US/09/759,143  
; CURRENT FILING DATE: 2001-01-12  
; NUMBER OF SEQ ID NOS: 934  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 456  
; LENGTH: 231  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-759-143-456

Query Match 14.4%; Score 225.4; DB 4; Length 231;  
Best Local Similarity 99.6%; Pred. No. 4.4e-52;  
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 476 CAAGTACCCCTTACAAAGAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 535  
Db 5 CAGGTACCCCTTACAAAGAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64  
Qy 536 ATTGAGTATTATCGTTATTATTCTTGAGAAACCCCTGTCTGTTTACTGTAAACCTTTTGCA 595  
Db 65 ATTGAGTATTATCGTTATTATTCTTGAGAAACCCCTGTCTGTTTACTGTAAACCTTTTGCA 124  
Qy 596 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 655  
Db 125 CTCAAATTCCTTTATCAGGAATACTACATAGCCACTATTATCAAAAGCCATTGGAACCTT 184  
Qy 656 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 702  
Db 185 TTTATTGGTGACGCTCTAGTCAAGTCCCTGACTGACATTGCCAAGT 231

## RESULT 10

US-09-651-236-456  
; Sequence 456, Application US/09651236  
; Patent No. 6818751

## GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

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; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42718C18
; CURRENT APPLICATION NUMBER: US/09/651,236
; CURRENT FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-651-236-456

Query Match      14.4%; Score 225.4; DB 4; Length 231;
Best Local Similarity 99.6%; Pred. No. 4.4e-52;
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 CAAGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATCTCC 535
Db 5 CAGGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATCTCC 64

QY 536 ATTCAGTATATCGTTATTATCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 595
Db 65 ATTCAGTATATCGTTATTATCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 124

QY 596 CTCAAATTCCTTTATCAGGAATAACTACATAGCCACTATTACAAAGCCATTGGAACCTT 655
Db 125 CTCAAATTCCTTTATCAGGAATAACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184

QY 656 TTTATTGTGACGCTGTAGTCAGTCCCTGACTGACATTCGCCAAGT 702
Db 185 TTTATTGTGACGCTGTAGTCAGTCCCTGACTGACATTCGCCAAGT 231

RESULT 11
US-09-360-376-28
; Sequence 28, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lassner, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 272
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(272)
; OTHER INFORMATION: n = A, T, C, or G
US-09-360-376-28

Query Match      13.9%; Score 218; DB 4; Length 272;
Best Local Similarity 86.7%; Pred. No. 5.3e-50;
Matches 221; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 315 CTTTCCGGGACCCGGGACAGACCATGTTTGACAAGACGGGCTGCCGTACGTGGCC 374
Db 1 CNTTGNNGGACCCCGGACGNNACANGTTNNACNNGACGGGCTGCCGTACGTGGCC 60

QY 375 CTCGATGCTCTGCGTGTGCTGGCTGGATTGCCCTTTTGCATCTTCTTCAAGGCAT 434
Db 61 CTCGATGCTCTGCGTGTGCTGGCTGGANTGCCCTTTTGTAACTTCTTCAAGGCAT 120

QY 435 ACCCCCTTCAACGAGGAGTATCTGTAATGATGAGTCATCAAGTACCCCTTACAAAGAA 494
Db 121 ACCCNCTTCAACGANGAGTATCTGNAATGNTGAGTCNCTCANGTACCCCTTACAAAGAA 180

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42718C18
; CURRENT APPLICATION NUMBER: US/09/651,236
; CURRENT FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 456
; LENGTH: 231
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-651-236-456

Query Match      14.4%; Score 225.4; DB 4; Length 231;
Best Local Similarity 99.6%; Pred. No. 4.4e-52;
Matches 226; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 CAAGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATCTCC 535
Db 5 CAGGTACCCCTTACAAGAAGACACCATACCTTATGCGTTATTAGGTGGAATAATCATCTCC 64

QY 536 ATTCAGTATATCGTTATTATCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 595
Db 65 ATTCAGTATATCGTTATTATCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 124

QY 596 CTCAAATTCCTTTATCAGGAATAACTACATAGCCACTATTACAAAGCCATTGGAACCTT 655
Db 125 CTCAAATTCCTTTATCAGGAATAACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184

QY 656 TTTATTGTGACGCTGTAGTCAGTCCCTGACTGACATTCGCCAAGT 702
Db 185 TTTATTGTGACGCTGTAGTCAGTCCCTGACTGACATTCGCCAAGT 231

RESULT 12
US-09-439-313-316
; Sequence 316, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Panger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 316
; LENGTH: 151
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-316

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Best Local Similarity 100.0%; Pred. No. 1.1e-31;
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 917 AGACTGGGCAAGACTCTTACGCCACACTGCAATTTGGTCTGTGTCGCTATCCATTTA 976
Db 1 AGACTGGGCAAGACTCTTACGCCACACTGCAATTTGGTCTGTGTCGCTATCCATTTA 60

QY 977 TGTGGGCTTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTTGACTGGACT 1036
Db 61 TGTGGGCTTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTTGACTGGACT 120

QY 1037 CATTCAGGAGCTCTGTTGCAATATTAGTT 1067
Db 121 CATTCAGGAGCTCTGTTGCAATATTAGTT 151

RESULT 13
US-09-352-616A-316
; Sequence 316, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 316  
; LENGTH: 151  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-352-616A-316

Query Match 9.7%; Score 151; DB 3; Length 151;  
Best Local Similarity 100.0%; Pred. No. 1.1e-31;  
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 917 AGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTGTGGCGTATCCATTTA 976  
Db 1 AGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTGTGGCGTATCCATTTA 60  
QY 977 TGTGGGCCCTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTGACTGGACT 1036  
Db 61 TGTGGGCCCTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTGACTGGACT 120  
QY 1037 CATTGAGGAGCTCTGGTTGCAATATTAGTT 1067  
Db 121 CATTGAGGAGCTCTGGTTGCAATATTAGTT 151

## RESULT 14

US-09-232-149A-316  
; Sequence 316, Application US/09232149A  
; Patent No. 6465611  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer Lynn  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE  
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.427C6  
; CURRENT APPLICATION NUMBER: US/09/232,149A  
; CURRENT FILING DATE: 1999-01-15  
; NUMBER OF SEQ ID NOS: 338  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 316  
; LENGTH: 151  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-232-149A-316

Query Match 9.7%; Score 151; DB 3; Length 151;  
Best Local Similarity 100.0%; Pred. No. 1.1e-31;  
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 61 TGTGGGCCCTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTGACTGGACT 120  
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Db 121 CATTGAGGAGCTCTGGTTGCAATATTAGTT 151

## RESULT 15

US-09-636-215-316  
; Sequence 316, Application US/09636215  
; Patent No. 6620922  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqi  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER  
; FILE REFERENCE: 210121.42717C17  
; CURRENT APPLICATION NUMBER: US/09/636,215  
; CURRENT FILING DATE: 2000-08-10  
; NUMBER OF SEQ ID NOS: 852  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 316  
; LENGTH: 151  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-636-215-316

Query Match 9.7%; Score 151; DB 4; Length 151;  
Best Local Similarity 100.0%; Pred. No. 1.1e-31;  
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 917 AGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTGTGGCGTATCCATTTA 976  
Db 1 AGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTGTGGCGTATCCATTTA 60  
QY 977 TGTGGGCCCTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTGACTGGACT 1036  
Db 61 TGTGGGCCCTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTGACTGGACT 120  
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Db 121 CATTGAGGAGCTCTGGTTGCAATATTAGTT 151

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Title: US-08-842-827-1

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Listing first 45 summaries

Database : Published Applications NA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1532.2	98.0	1703	21	US-10-357-930-25877
2	1426.8	91.3	1566	24	US-10-764-425-61
3	1204	77.0	1388	19	US-10-287-226-347
4	995	63.7	1043	20	US-10-647-426-21
5	995	63.7	1043	21	US-10-643-795A-57

6	995	63.7	1043	22	US-10-948-518-57	Sequence 57, Appl
7	995	63.7	1043	22	US-10-956-157-1105	Sequence 1105, Ap
8	926	59.2	1096	19	US-10-287-226-345	Sequence 345, App
9	635	40.6	871	18	US-10-191-803-154	Sequence 154, App
10	635	40.6	871	19	US-10-152-319A-1795	Sequence 1795, Ap
11	600	38.4	600	22	US-10-956-157-6340	Sequence 6340, Ap
12	483.4	30.9	486	22	US-10-956-157-9858	Sequence 2825, Ap
13	482.8	30.9	1400	22	US-10-956-157-9858	Sequence 2825, Ap
14	482.8	30.9	3947	22	US-10-956-157-4623	Sequence 4623, Ap
15	482.8	30.9	26197	9	US-09-764-847-1965	Sequence 1965, Ap
16	482.8	30.9	26197	15	US-10-092-154-1965	Sequence 1966, Ap
17	482.8	30.9	26210	9	US-09-764-847-1966	Sequence 1966, Ap
18	482.8	30.9	26210	15	US-10-092-154-1966	Sequence 1966, Ap
19	471.8	30.2	1746	21	US-10-357-930-22657	Sequence 22657, A
20	471.8	30.2	1746	21	US-10-357-930-22828	Sequence 22828, A
21	471.8	30.2	1746	21	US-10-357-930-28502	Sequence 28502, A
22	471.8	30.2	1746	21	US-10-357-930-28683	Sequence 28683, A
23	422	27.0	543	21	US-10-357-930-39311	Sequence 39311, A
24	407.8	26.1	695	21	US-10-357-930-9132	Sequence 9132, Ap
25	390.6	25.0	436	18	US-10-242-535A-40353	Sequence 40353, A
26	390.6	25.0	436	19	US-10-085-783A-40353	Sequence 40353, A
27	354.8	22.7	423	10	US-09-590-213-243	Sequence 243, App
28	342.6	21.9	482	22	US-10-696-639-2824	Sequence 2824, Ap
29	283.6	18.1	295	18	US-10-242-535A-33407	Sequence 33407, A
30	283.6	18.1	295	19	US-10-085-783A-33407	Sequence 33407, A
31	277.4	17.7	460	18	US-10-242-535A-3562	Sequence 3562, Ap
32	277.4	17.7	460	19	US-10-085-783A-3562	Sequence 3562, Ap
33	265	17.0	266	18	US-10-305-720-322	Sequence 322, App
34	254.8	16.3	1269	20	US-10-647-426-25	Sequence 25, Appl
35	253.2	16.2	1303	24	US-10-765-700-117	Sequence 117, App
36	240.2	15.4	1301	24	US-10-491-467-101	Sequence 101, App
37	236.6	15.1	959	21	US-10-363-345A-33205	Sequence 33205, A
38	236.6	15.1	959	21	US-10-363-345A-33206	Sequence 33206, A
39	236.6	15.1	959	22	US-10-363-483A-33205	Sequence 33205, A
40	236.6	15.1	959	22	US-10-363-483A-33206	Sequence 33206, A
41	236.6	15.1	960	21	US-10-363-345A-36051	Sequence 36051, A
42	236.6	15.1	960	21	US-10-363-345A-36052	Sequence 36052, A
43	236.6	15.1	960	22	US-10-363-483A-36051	Sequence 36051, A
44	236.6	15.1	960	22	US-10-363-483A-36052	Sequence 36052, A
45	231	14.8	275	21	US-10-425-115-122479	Sequence 122479,

#### ALIGNMENTS

RESULT 1  
US-10-357-930-25877  
; Sequence 25877, Application US/10357930  
; Publication No. US20040259086A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Endege, Wilson  
; APPLICANT: Monahan, John  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF HUMAN PROSTATE CANCER  
; TITLE OF INVENTION: HUMAN PROSTATE CANCER  
; FILE REFERENCE: MRI-007BCN  
; CURRENT APPLICATION NUMBER: US/10/357,930  
; CURRENT FILING DATE: 2003-02-04  
; PRIOR APPLICATION NUMBER: 09/785,276  
; PRIOR FILING DATE: 2003-02-16  
; PRIOR APPLICATION NUMBER: 60/183,319  
; PRIOR FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: 60/189,862  
; PRIOR FILING DATE: 2000-03-16  
; PRIOR APPLICATION NUMBER: 60/207,454  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: 60/211,314  
; PRIOR FILING DATE: 2000-06-09  
; PRIOR APPLICATION NUMBER: 60/219,007  
; PRIOR FILING DATE: 2000-07-18  
; PRIOR APPLICATION NUMBER: 60/255,281  
; PRIOR FILING DATE: 2000-12-13

NUMBER OF SEQ ID NOS: 62232  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25877  
; LENGTH: 1703  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 1697, 1698, 1699, 1700, 1701, 1702,  
; LOCATION: 1703  
; OTHER INFORMATION: n = A,T,C or G  
US-10-357-930-25877

Query Match 98.0%; Score 1532.2; DB 21; Length 1703;  
Best Local Similarity 99.4%; Pred. No. 0;  
Matches 1548; Conservative 0; Mismatches 8; Indels 1; Gaps 1;

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DB CTTGTGGGAGAGCGCCGGGATCCGAGCGGG-AGCAACCGGGGCGAGCGCGGT 167  
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DB GAGGAGTCTGAGGCTACAGAGCTCCGCGGCTGGCACAAGAGCGCCTCGGCACTAAC 227  
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DB CGCCGGTCTACGCCCGCTCGGCTGCTCTCTCTCGGCTGGGAGGGCGGTATCTC 347  
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QY 301 CCTCATTCATCGCCCTTGGCGGGAGCCCGGGCAGAGACCATGTTTGACAGACCGCG 360  
DB GCTCAGTCCATCGCCCTTGGCGGGAGCCCGGGCAGAGACCATGTTTGACAGACCGCG 467  
QY 361 TGGCGTACGTGGCCCTCGATGCTCTGCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420  
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QY 841 TCTATTAGGCGACCTCTTCGTTTCCATGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
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DB AAGCCAGGATGAAGGAGAGCTGGGCAAGACTCTTACGCGCCACACCTGCAATTTGCTT 1067  
QY 961 TTGCGGTATCCATTTATGTGGGCTTTCTCGAGTTTCTGATTAATAACACCACTGAGCG 1020  
DB TTGCGGTATCCATTTATGTGGGCTTTCTCGAGTTTCTGATTAATAACACCACTGAGCG 1127  
QY 1021 ATGCTGTGACTGAGCTCATTCAGGAGCTCTGTTGCAATATAGTCTGATATGAT 1080  
DB ATGCTGTGACTGAGCTCATTCAGGAGCTCTGTTGCAATATAGTCTGATATGAT 1187  
QY 1081 CGGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCTACAA 1140  
DB CGGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCTACAA 1247  
QY 1141 CTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATCACCAGCCTTGAAGG 1200  
DB CTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATCACCAGCCTTGAAGG 1307  
QY 1201 CAGCAGGCTGCCAGGTGAAGCTGCTGTTTCTAAAGAAAGAAATGATGCCCAAGGCA 1260  
DB CAGCAGGCTGCCAGGTGAAGCTGCTGTTTCTAAAGAAAGAAATGATGCCCAAGGCA 1367  
QY 1261 AGAGATGATCTTTCTTCTGCTGTAACAAGCTTTTAAAGACTCTGCTGCTGATATGCC 1320  
DB AGAGATGATCTTTCTTCTGCTGTAACAAGCTTTTAAAGACTCTGCTGCTGATATGCC 1427  
QY 1321 TCTTGGATGCACACTTTGCTGTAATAGTTTAACTTAACTTAACTTAACTTAACTTAACT 1380  
DB TCTTGGATGCACACTTTGCTGTAATAGTTTAACTTAACTTAACTTAACTTAACTTAACT 1487  
QY 1381 CTAACTCATTAATAAACTCCAGCCTTCCACCAAAACAGTGGCCACCTGATACATT 1440  
DB CTAACTCATTAATAAACTCCAGCCTTCCACCAAAACAGTGGCCACCTGATACATT 1547  
QY 1441 TTTATTAATAAAATGATGCTTATGTAATAACATGTAATGTAATGCTTCTATGAATG 1500  
DB TTTATTAATAAAATGATGCTTATGTAATAACATGTAATGTAATGCTTCTATGAATG 1607  
QY 1501 ATGTTGATTAATAATATATATATTAATAATGTAATGTAATGTAATGTAATGTAATG 1557  
DB ATGTTGATTAATAATATATATATTAATAATGTAATGTAATGTAATGTAATGTAATG 1664

RESULT 2

US-10-764-425-61  
; Sequence 61, Application US/10764425  
; Publication No. US20040146921A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Pharmaceuticals Corporation  
; APPLICANT: Eveleigh, Deepa  
; APPLICANT: Bigwood, Douglas  
; APPLICANT: Taylor, Ian  
; TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE  
; FILE REFERENCE: 5151  
; CURRENT APPLICATION NUMBER: US/10/764,425  
; CURRENT FILING DATE: 2004-01-23  
; PRIOR APPLICATION NUMBER: 60/442,582  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 191  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 61  
; LENGTH: 1566  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-764-425-61

Query Match 91.3%; Score 1426.8; DB 24; Length 1566;

Best Local Similarity 94.9%; Pred. No. 0;  
Matches 1486; Conservative 0; Mismatches 77; Indels 3; Gaps 1;

Qy	1	CCTGTGGAGAGCGCGGATCCGACCGGGTAGCAACCGGGGAGCGCGTCCGGCT	60
Db	1	CCTGTGGAGAGCGCGGATCCGACCGGGTAGCAACCGGGGAGCGCGTCCGGCT	60
Qy	61	GAGAGGTCTGAGGCTACAGAGCTGCGGGCTGGCACAGCGCTCGGCACTAAC	120
Db	61	GAGAGGTCTGAGGCTACAGAGCTGCGGGCTGGCACAGCGCTCGGCACTAAC	120
Qy	121	GAGTGTTCGGGGGCTGTGAGGGAGGGCCCGGGGCCATTGCTGGCGGTGGAGCG	180
Db	121	GAGTGTTCGGGGGCTGTGAGGGAGGGCCCGGGGCCATTGCTGGCGGTGGAGCG	180
Qy	181	CGCCCGGTCTCAGCGCCCTCGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	240
Db	181	CGCCCGGTCTCAGCGCCCTCGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	240
Qy	241	GGGGCGTCCCGAGCCCGCCCGGCTCGATTAATCAAGGGCCCTCGGCCGTCTCCGCA	300
Db	241	GGGGCGTCCCGAGCCCGCCCGGCTCGATTAATCAAGGGCCCTCGGCCGTCTCCGCA	300
Qy	301	CCTCATTCATCGCCCTTGGCGGCGAGCCCGGGGAGACCATGTTTGAACAAGCGCG	360
Db	301	CCTCATTCATCGCCCTTGGCGGCGAGCCCGGGGAGACCATGTTTGAACAAGCGCG	360
Qy	361	TGCGGTACGTGGCCCTCGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	420
Db	361	TGCGGTACGTGGCCCTCGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	420
Qy	421	TTACTTCAAGGCATA---CCCCCTTCAACGAGGAGTATTCTGTATGATGATCA	477
Db	421	TAAATTTGGGCCAAATATATCCATTTTCAGAGAGGCTTTTCTGTAAAGCAACAGCATCA	480
Qy	478	AGTACCTTTACAAGAGACACCATACCTTATGCGTTATTAAGTGGAAATCATTCAT	537
Db	481	ACTATCCGTACCATGACAGTACCGCGCATCCACTGTCTCTCATCTAGTGGGGTGGCT	540
Qy	538	TCAGTATTATCGTTATTATTTCTGGAGAACCCCTGTCTGTCTGTACTGTACCTTTGC	597
Db	541	TGCGGTTTCTCTATTTATTTCTGGAGAACCCCTGTCTGTCTGTACTGTAACTTTGC	600
Qy	598	CAAAATTCCTTTATCAGGAATAACATACATAGCCACTATTACAAAGCCATTGGAACCTTT	657
Db	601	CAAAATTCCTTTATCAGTAAATACTACATAGCCACTATTACAAAGCCATTGGAACCTTT	660
Qy	658	TATTTGGTGAGCTGCTAGTCACTCCCTGACTGACATTCGCAAGTATTCAATAGGAGAC	717
Db	661	TATTTGGTGAGCTGCTAGTCACTCCCTGACTGACATTCGCAAGTATTCAATAGGAGAC	720
Qy	718	TGCGGCTCACTTCTTGGATGTTTGTGATCCAGATTGTCMAAATCAACTGCGCGATG	777
Db	721	TGCGGCTCACTTCTTGGATGTTTGTGATCCAGATTGTCMAAATCAACTGCGCGATG	780
Qy	778	GTTCATTTGAATACTACATATGTGAGGGAATGCAGAAAGAGTTAAGGAAGGAGGTGT	837
Db	781	GTTCATTTGAATACTACATATGTGAGGGAATGCAGAAAGAGTTAAGGAAGGAGGTGT	840
Qy	838	CTTCTATTTCAGGCCACTCTTCTGTTTTTCAATGATCTGATGCTGTTTTTGGCACTTTATC	897
Db	841	CTTCTATTTCAGGCCACTCTTCTGTTTTTCCATGATCTGATGCTGTTTTTGGCACTTTATC	900
Qy	898	TTCAAGCCAGGATGAGGAGAGTGGGAGACTCTTACGCCCACTGCAATTTGGTC	957
Db	901	TTCAAGCCAGGATGAGGAGAGTGGGAGACTCTTACGCCCACTGCAATTTGGTC	960
Qy	958	TTGTTCCGCTATCCATTTATGTTGGGCTTCTCTGAGTTCTGTATTAACACCACTGGA	1017
Db	961	TTGTTCCGCTATCCATTTATGTTGGGCTTCTCTGAGTTCTGTATTAACACCACTGGA	1020
Qy	1018	GGATGTGTGACTGACTCATTTCAGGAGCTCTGTTGCAATATTAGTTGCTGTATATG	1077

Db	1021	GCATGTGTGACTGGACTCATTTTCAGGAGCTCTGGTTGCAATATTAGTTGCTGTATATG	1080
Qy	1078	TATCGGATTTCTTCAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGAGGACTCTCATTA	1137
Db	1081	TATCGGATTTCTTCAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGAGGACTCTCATTA	1140
Qy	1138	CAACTCTGCATGAAACCAACCAACTGGGAATCACTATCCGAGCAATCACCAGCCTTGAA	1197
Db	1141	CAACTCTGCATGAAACCAACCAACTGGGAATCACTATCCGAGCAATCACCAGCCTTGAA	1200
Qy	1198	AGCAGCAGGGTCCCGAGGTGAAGCTGGCTGTTTCTTAAAGAAATGATTGCCACAAG	1257
Db	1201	AGCAGCAGGGTCCCGAGGTGAAGCTGGCTGTTTCTTAAAGAAATGATTGCCACAAG	1260
Qy	1258	GCAAGAGGATGATCTTCT	1317
Db	1261	GCAAGAGGATGATCTTCT	1320
Qy	1318	GCCTCTTGGATGCACACTTTTGTGTGTACATAGTTTAACTTAACTCAGTGGTTATCTAATA	1377
Db	1321	GCCTCTTGGATGCACACTTTTGTGTGTACATAGTTTAACTTAACTCAGTGGTTATCTAATA	1380
Qy	1378	GCTCTAAACTCATTAATAAAAACTCCAGGCTTCCACAAACAGTGCCTCCCTGTATAC	1437
Db	1381	GCTCTAAACTCATTAATAAAAACTCCAGGCTTCCACAAACAGTGCCTCCCTGTATAC	1440
Qy	1438	ATTTTATTAATAAAAAATGTAATGCTTATGTATATAACATGTATATATGCTTCTTATGA	1497
Db	1441	ATTTTATTAATAAAAAATGTAATGCTTATGTATATAACATGTATATATGCTTCTTATGA	1500
Qy	1498	ATGATGTTTGAATTAATAATAACATATTAATAATGTATGGGAGAACCAAAAAA	1557
Db	1501	ATGATGTTTGAATTAATAATAACATATTAATAATGTATGGGAGAACCAAAAAA	1560
Qy	1558	AAAAAA 1563	
Db	1561	AAAAAA 1566	

RESULT 3  
US-10-287-226-347  
; Sequence 347, Application US/10287226  
; Publication No. US20040086875A1  
; GENERAL INFORMATION:  
; APPLICANT: Agee, Michele L.,  
; APPLICANT: Alsobrook, John P.,  
; APPLICANT: Berghs, Constance,  
; APPLICANT: Boldog, Ference,  
; APPLICANT: Burgess, Catherine E.,  
; APPLICANT: Chant, John S.,  
; APPLICANT: Chaudhuri, Amitabha,  
; APPLICANT: DiPippo, Vincent A.,  
; APPLICANT: Edinger, Shlomit R.,  
; APPLICANT: Eisen, Andrew,  
; APPLICANT: Ellerman, Karen,  
; APPLICANT: Gangolli, Bsha A.,  
; APPLICANT: Gorman, Linda,  
; APPLICANT: Gerlach, Valerie,  
; APPLICANT: Ji, Weizhen,  
; APPLICANT: Kekuda, Ramesh,  
; APPLICANT: Khramtsov, Nikolai,  
; APPLICANT: Li, Li,  
; APPLICANT: Malyankar, Uriel M.,  
; APPLICANT: MacDougall, John R.,  
; APPLICANT: Mezes, Peter S.,  
; APPLICANT: Miller, Charles E.,  
; APPLICANT: Millet, Isabelle,  
; APPLICANT: Ooi, Chean Eng,  
; APPLICANT: Ort, Tatiana,  
; APPLICANT: Padigaru, Muralidhara,  
; APPLICANT: Patturajan, Meera,  
; APPLICANT: Rastelli, Luca,  
; APPLICANT: Rieger, Daniel K.,

```
; APPLICANT: Rothenberg, Mark E.,
; APPLICANT: Shenoy, Suresh G.,
; APPLICANT: Spaderina, Steven K.,
; APPLICANT: Spytek, Kimberley A.,
; APPLICANT: Taupier, Jr., Raymond J.,
; APPLICANT: Vernet, Corine A.M.,
; APPLICANT: Zernhusen, Bryan D.,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-480C
; CURRENT APPLICATION NUMBER: US/10/287,226
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/334,421
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,392
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/360,148
; PRIOR FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/364,000
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/404,821
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 60/334,526
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,409
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/364,227
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/334,027
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: 60/331,641
; PRIOR FILING DATE: 2001-11-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 673
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 347
; LENGTH: 1388
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (357)..(1019)
US-10-287-226-347

Query Match 77.0%; Score 1204; DB 19; Length 1388;
Best Local Similarity 89.4%; Pred. No. 7e-306;
Matches 1372; Conservative 0; Mismatches 10; Indels 152; Gaps 1;

QY 29 CGGGGTAGCAACCGGGGCGAGCGGTGCGGCTGAGGAGGTCTGAGGCTACAGAGTGCC 88
DB 7 CGTCGACGCAACCGGGGCGAGCGGTGCGGCTGAGGAGGTCTGAGGCTACAGAGTGCC 66
QY 89 GCGGCTGGCACACGAGCGCTCGGCCTAACCGAGTGTTCGGGGGCGTGTGAGGGGAGG 148
DB 67 GCGGCTGGCACACGAGCGCTCGGCCTAACCGAGTGTTCGGGGGCGTGTGAGGGGAGG 126
QY 149 GCCCGGGGCGCAATTGCTGGCGGTGGGAGCGCGCGCGTCTCAGCCCGCGCTCGGCTGC 208
DB 127 GCCCGGGGCGCAATTGCTGGCGGTGGGAGCGCGCGCGTCTCAGCCCGCGCTCGGCTGC 186
QY 209 TCTCTCTCTCGGCTGGGAGGGCGGTATCTCGGGGCGCGTTCGCGCAGCGCGCGCGGCT 268
DB 187 TCTCTCTCTCGGCTGGGAGGGCGGTATCTCGGGGCGCGTTCGCGCAGCGCGCGCGGCT 246
QY 269 CGATATCAAGGCGCTCGGCGGTCTCGGCACCTCATTCACCTTTCGCGGCGAGC 328
DB 247 CGAGATCAAGGCGCTCGGCGCGCGCTCGGCGAGCTCAGTCCATTCGCGGCGAGC 306
QY 329 CCGGGCAGAGACCATGTTTGACAAGACGCGGCTGCGGTACGTGGCGGCTCGATGTGCTCTG 388
DB 307 CCGGGCAGAGACCATGTTTGACAAGACGCGGCTGCGGTACGTGGCGGCTCGATGTGCTCTG 366
QY 389 CGTGTGTGCTGGGATGTCCTTTTGCATTTCTTACTTCAAGGCATACCCCTTCCAACG 448

; Db 367 CGTGTGTGCTG----- 377
; QY 449 AGGAGTATTCTGTAATGATGAGTCCATCAAGTACCCTTACAAAGAGACACCATCTTTA 508
; Db 378 ----- 377
; QY 509 TCGGTTATTAGGTGAATAATCATTCCATTTCAGTATTATCGTTATATTCTTTGGAGAAC 568
; Db 378 -----ATTATCTTTGGAGAAC 394
; QY 569 CCTGTCTGTTTACTGTAACCTTTTGCACCTCAAAATTCCTTTATCAGGAATAACTACATAGC 528
; Db 395 CCTGTCTGTTTACTGTAACCTTTTGCACCTCAAAATTCCTTTATCAGGAATAACTACATAGC 454
; QY 629 CACTATTTACAAAGCCATTGGAACTTTTATTTGGTGCAGCTGTAGTCAGTCCTGAC 688
; Db 455 CACTATTTACAAAGCCATTGGAACTTTTATTTGGTGCAGCTGTAGTCAGTCCTGAC 514
; QY 689 TGACATTTGCCAAGTATTCAATAGGCAGACTGCGGCTCACTTTCTTTGGATGTTTGTATCC 748
; Db 515 TGACATTTGCCAAGTATTCAATAGGCAGACTGCGGCTCACTTTCTTTGGATGTTTGTATCC 574
; QY 749 AGATTGGTCAAAATCAACTGCAGCGATGTTTACATTTGAATCACTACATATGTCGAGGAA 808
; Db 575 AGATTGGTCAAAATCAACTGCAGCGATGTTTACATTTGAATCACTACATATGTCGAGGAA 634
; QY 809 TGCAGAAAGAGTTAAGGAGGCGAGGTTGCTCTTATTTCAGGCCACTCTTTCGTTTCCAT 868
; Db 635 TGCAGAAAGAGTTAAGGAGGCGAGGTTGCTCTTATTTCAGGCCACTCTTTCGTTTCCAT 694
; QY 869 GTACTGCAATGCTTTTGTGGCACTTTTATCTTCAAGCCAGGATGAAGGGAGACTGGGCAAG 928
; Db 695 GTACTGCAATGCTTTTGTGGCACTTTTATCTTCAAGCCAGGATGAAGGGAGACTGGGCAAG 754
; QY 929 ACTCTTAGCCCCCACACTGCAATTTGCTGCTGCTGCTATCCATTTATGTCGGGCTTTC 988
; Db 755 ACTCTTAGCCCCCACACTGCAATTTGCTGCTGCTGCTATCCATTTATGTCGGGCTTTC 814
; QY 989 TCGAGTTTCTGATTATAAACACCACTGGAGCGATGTTGACTGGACTCATTCAGGGAGC 1048
; Db 815 TCGAGTTTCTGATTATAAACACCACTGGAGCGATGTTGACTGGACTCATTCAGGGAGC 874
; QY 1049 TCTGTTGCAATATTAGTTGCTGTATATGATTCGGAATTTCTTCAAGAAAGAACTCTTTT 1108
; Db 875 TCTGTTGCAATATTAGTTGCTGTATATGATTCGGAATTTCTTCAAGAAAGAACTCTTTT 934
; QY 1109 TAAAGAAAGAAAGAGGAGGACTCTCATACAACTCTGCATGAACACCAACCACTGGGAA 1168
; Db 935 TAAAGAAAGAAAGAGGAGGACTCTCATACAACTCTGCATGAACACCAACCACTGGGAA 994
; QY 1169 TCACATATCCGAGCAATCACAGCCTTGAAGGCGAGCGGTGCCAGGTGAAGCTGGCCT 1228
; Db 995 TCACATATCCGAGCAATCACAGCCTTGAAGGCGAGCGGTGCCAGGTGAAGCTGGCCT 1054
; QY 1229 GTTTTCTTAAAGAAATGATTGCCACAAGGAGGATGCAATCTTTCTTCTTGTGTATC 1288
; Db 1055 GTTTTCTTAAAGAAATGATTGCCACAAGGAGGATGCAATCTTTCTTCTTGTGTATC 1114
; QY 1289 AAGCCCTTTAAAGACATTCGTGCTGATATGCTCTTGGATGCACACTTTGTGTATACATA 1348
; Db 1115 AAGCCCTTTAAAGACATTCGTGCTGATATGCTCTTGGATGCACACTTTGTGTATACATA 1174
; QY 1349 GTTACCTTTAACTCAGTGCTTATTAATAGCTCTAAACTCATTAATAAACTCCAAGCCT 1408
; Db 1175 GTTACCTTTAACTCAGTGCTTATTAATAGCTCTAAACTCATTAATAAACTCCAAGCCT 1234
; QY 1409 TCCACAAAGAGTGGCCCACTGTATACATTTTATTAAATAATGTAATGCTTATGTA 1468
; Db 1235 TCCACAAAGAGTGGCCCACTGTATACATTTTATTAAATAATGTAATGCTTATGTA 1294
; QY 1469 TAAACATGTATGTAATATGCTTTCTTATGAATGATGTTTGAATTAATAATATACATTTA 1528
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Db 1295 TAAACATGTTATGCTTTCTATGAATGATGTTTGATTTAAATATAATACATATTA 1354

Qy 1529 AAATGTTATGGAGAACCAAAAAAAAAAAAAAAAAA 1562

Db 1355 AAATGTTATGGAGAACCAAAAAAAAAAAAAAAAAA 1388

## RESULT 4

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US-10-647-426-21
; Sequence 21, Application US/10647426
; Publication No. US20040110197A1
; GENERAL INFORMATION:
; APPLICANT: Skinner, Michael K.
; APPLICANT: Patton, Jodi L.
; TITLE OF INVENTION: A METHOD OF DETERMINING TUMOR CHARACTERISTICS BY
; TITLE OF INVENTION: DETERMINING ABNORMAL COPY NUMBER OR EXPRESSION LEVEL OF
; TITLE OF INVENTION: LIPID-ASSOCIATED GENES
; FILE REFERENCE: PATRICK EAGLEMAN: EMBOL-X 252/124
; CURRENT APPLICATION NUMBER: US/10/647,426
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: US/03/676,052
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 21
; LENGTH: 1043
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1043)
; OTHER INFORMATION: The sequence of the cDNA coding for Phosphatidic
; OTHER INFORMATION: Acid Phosphatase type 2a
US-10-647-426-21

```

Query Match	63.7%	Score 995;	DB 20;	Length 1043;
Best Local Similarity	98.1%	Pred. No. 6.5e-251;		
Matches 1023; Conservative	0;	Mismatches 5;	Indels 15;	Gaps 1;
QY	256	CCCGGCCGGGCTCGATATCAAGGGCCCTCGGCCGTCGTCGCCGACCTCATTTCCATCGCC	315	
DB	1			
QY	316	CTTTCGGGGCAGCCCGGGCAGAGACCATGTTTTCACAAGACGCGGCTCGCTAGCTGGCCCC	375	
DB	61	CTTTCGGGGCAGCCCGGGCAGAGACCATGTTTTCACAAGACGCGGCTCGCTAGCTGGCCCC	120	
QY	376	TCGATGTGCTCTGCGTGTGCTGGCTGGATTTGCTTTTGCAT- - - - - TC	420	
DB	121	TCGATGTGCTCTGCGTGTGCTGGCTGGATTTGCTTTTGCATTTTCTTCAAGGCATA	180	
QY	421	TTACTTTCAAGGCATACCCCTTCCACGAGGAGTATTCGTAAATGATGAGTCCATCAAGT	480	
DB	181	TTACTTTCAAGGCATACCCCTTCCACGAGGAGTATTCGTAAATGATGAGTCCATCAAGT	240	
QY	481	ACGCTTTACAAAGACAGACCATACCTTATTCGTTTATAGGTGGAATAATCATTTCCATTCA	540	
DB	241	ACGCTTTACAAAGACAGACCATACCTTATTCGTTTATAGGTGGAATAATCATTTCCATTCA	300	
QY	541	GTATTATCGTTATTATTCCTTGGAGAACCTGTCGTTTACTGTGTAACTTTTGCACTCAA	600	
DB	301	GTATTATCGTTATTATTCCTTGGAGAACCTGTCGTTTACTGTGTAACTTTTGCACTCAA	360	
QY	601	ATTTCCTTTATCAGGAATAACTACATAGCCACTATTTTTACAAAGCCATTGGAAACCTTTTAT	660	
DB	361	ATTTCCTTTATCAGGAATAACTACATAGCCACTATTTTTACAAAGCCATTGGAAACCTTTTAT	420	
QY	661	TTGGTGCAGCTGCTAGTCCCTGACTGACATTCGCCAAGTATTCAAATAGGCAGACTGC	720	
DB	421	TTGGTGCAGCTGCTAGTCCCTGACTGACATTCGCCAAGTATTCAAATAGGCAGACTGC	480	
QY	721	GGCCTCACCTTCCTGGAGTTTGTGATCCAGATTGGTCAAAAATCAACTCAGCGATGGTT	780	

DEFENDANT'S EXHIBIT

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US-10-643-795A-57
; Sequence 57, Application US/10643795A
; Publication No. US20040241703A1
GENERAL INFORMATION:
; APPLICANT: FREDERIC J. DESAUVAGE
; APPLICANT: GRETCHEN PRANTZ
; APPLICANT: KENNETH J. HILLAN
; APPLICANT: PAUL POLAKIS
; APPLICANT: ANDREW POLSON
; APPLICANT: VICTORIA SMITH
; APPLICANT: SUSAN D. SPENCER
; APPLICANT: THOMAS D. WU
; APPLICANT: ZEMIN ZHANG
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; TITLE OF INVENTION: TREATMENT OF TUMOR
; FILE REFERENCE: P5026R1-US
; CURRENT APPLICATION NUMBER: US/10/643,795A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,809
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/405,645
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: US 60/413,192
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: US 60/419,008
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/426,847
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/484,959
; PRIOR FILING DATE: 2003-07-02
; NUMBER OF SEQ ID NOS: 158
; SEQ ID NO 57
; LENGTH: 1043

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; TYPE: DNA		; ORGANISM: Homo sapien	
US-10-643-795A-57			
Query Match		63.7%; Score 995; DB 21; Length 1043;	
Best Local Similarity		98.1%; Pred. No. 6.5e-251;	
Matches 1023; Conservative		0; Mismatches 5; Indels 15; Gaps 1;	
QY	256	CCCGGCCGGCTCGATATCAAGGGCCCTCGGCGCTCGTCCCGCACCTCATTCATCGCC	315
Db	1	CCCGGCCGGCTCGAGATCAAGGGCCCTCGGCGCGCTCCCGCAGCTCAGTCCATCGCC	60
QY	316	CTTGGCGGCGAGCCGGGAGAGACCATGTTTGACAAAGCGGCGTCCGTACGTGGCC	375
Db	61	CTTGGCGGCGAGCCGGGAGAGACCATGTTTGACAAAGCGGCGTCCGTACGTGGCC	120
QY	376	TCGATGTGCTCTGCGTGTGCTGCGCTGGATTGCTTTTGCAT	420
Db	121	TCGATGTGCTCTGCGTGTGCTGCGCTGGATTGCTTTTGCAT	180
QY	421	TTACTTCAAGGCATACCCCTTCCAAAGAGAGATTTCTGTAATGATGATGATCAAGT	480
Db	181	TTACTTCAAGGCATACCCCTTCCAAAGAGAGATTTCTGTAATGATGATGATCAAGT	240
QY	481	ACCTTTACAAGAGACACCATACCTTATCGCTTATAGTGGAAATCAATCCATTCA	540
Db	241	ACCTTTACAAGAGACACCATACCTTATCGCTTATAGTGGAAATCAATCCATTCA	300
QY	541	GTATTATCGTTATTATTTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACTCA	600
Db	301	GTATTATCGTTATTATTTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACTCA	360
QY	601	ATTCCTTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTTTTAT	660
Db	361	ATTCCTTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTTTTAT	420
QY	661	TTGGTCAGCTGCTAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGACTGC	720
Db	421	TTGGTCAGCTGCTAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGACTGC	480
QY	721	GGCTCACTCTTGGATGTTTGTGATCCAGATGGTCAAAATCAACTCGAGCGATGTT	780
Db	481	GGCTCACTCTTGGATGTTTGTGATCCAGATGGTCAAAATCAACTCGAGCGATGTT	540
QY	781	ACATTAATCACTACATATGTCGAGGAATGCAGAAAGAGTTAAGAAAGCAGGTTCTCT	840
Db	541	ACATTAATCACTACATATGTCGAGGAATGCAGAAAGAGTTAAGAAAGCAGGTTCTCT	600
QY	841	TCTATTTCAGGCCACTCTCTGTTTCCATGCTACTGCAATGTTTGTGGCACTTTATCTTC	900
Db	601	TCTATTTCAGGCCACTCTCTGTTTCCATGCTACTGCAATGTTTGTGGCACTTTATCTTC	660
QY	901	AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG	960
Db	661	AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG	720
QY	961	TTGCCGTATCCATTTATGTGGCCCTTTCTCGAGTTTCTGATTAATAACCACTGGAGCG	1020
Db	721	TTGCCGTATCCATTTATGTGGCCCTTTCTCGAGTTTCTGATTAATAACCACTGGAGCG	780
QY	1021	ATGTGTGACTGACACTCATTCAGGGAGCTCTGTTGCAATATTTAGTGTGATATGTAT	1080
Db	781	ATGTGTGACTGACACTCATTCAGGGAGCTCTGTTGCAATATTTAGTGTGATATGTAT	840
QY	1081	CGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA	1140
Db	841	CGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA	900
QY	1141	CTCTCATGAAACCAACAACTCGGGAATCACTATCCGAGCAATCAACGCTTGAAGG	1200
Db	901	CTCTCATGAAACCAACAACTCGGGAATCACTATCCGAGCAATCAACGCTTGAAGG	960
QY	1201	CAGCAGGTCGCCAGGTCGAGCTGGCTGTTTCTTAAAGGAAATGATTGCCACAGGCA	1260

Db	961	CAGCAGGTCGCCAGGTCGAGCTGGCTGTTTCTTAAAGGAAATGATTGCCACAGGCA	1020
QY	1261	AGAGATGCATCTTTCTTCCTGG	1283
Db	1021	AGAGATGCATCTTTCTTCCTGG	1043

RESULT 6

US-10-948-518-57

; Sequence 57, Application US/10948518

; Publication No. US20050064492A1

; GENERAL INFORMATION:

; APPLICANT: FREDERIC J. DESAUVAGE

; APPLICANT: GRETCHEN FRANTZ

; APPLICANT: KENNETH J. HILLAN

; APPLICANT: PAUL POLAKIS

; APPLICANT: ANDREW POLSON

; APPLICANT: VICTORIA SMITH

; APPLICANT: SUSAN D. SPENCER

; APPLICANT: THOMAS D. WU

; APPLICANT: ZEMIN ZHANG

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

; TITLE OF INVENTION: TREATMENT OF TUMOR

; FILE REFERENCE: P5026R1-US

; CURRENT APPLICATION NUMBER: US/10/948,518

; CURRENT FILING DATE: 2004-09-22

; PRIOR APPLICATION NUMBER: US/10/643,795

; PRIOR FILING DATE: 2003-08-19

; PRIOR APPLICATION NUMBER: US 60/404,809

; PRIOR FILING DATE: 2002-08-19

; PRIOR APPLICATION NUMBER: US 60/405,645

; PRIOR FILING DATE: 2002-08-21

; PRIOR APPLICATION NUMBER: US 60/413,192

; PRIOR FILING DATE: 2002-09-23

; PRIOR APPLICATION NUMBER: US 60/419,008

; PRIOR FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 60/426,847

; PRIOR FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US 60/484,959

; PRIOR FILING DATE: 2003-07-02

; NUMBER OF SEQ ID NOS: 158

; SEQ ID NO 57

; LENGTH: 1043

; TYPE: DNA

; ORGANISM: Homo sapien

US-10-948-518-57

Query Match

Best Local Similarity 63.7%; Score 995; DB 22; Length 1043;

Matches 1023; Conservative 0; Mismatches 5; Indels 15; Gaps 1;

QY 256 CCCGCCCGGGCTCGATATCAAGGGCCCTCGGCGCTCGTCCCGCACCTCATTCATCGCC 315

Db 1 CCCGCCCGGGCTCGAGATCAAGGGCCCTCGGCGCGCTCCCGCAGCTCAGTCCATCGCC 60

QY 316 CTTGGCGGCGAGCCGGGAGAGACCATGTTTGACAAAGCGGCGTCCGTACGTGGCC 375

Db 61 CTTGGCGGCGAGCCGGGAGAGACCATGTTTGACAAAGCGGCGTCCGTACGTGGCC 120

QY 376 TCGATGTGCTCTGCGTGTGCTGCGCTGGATTGCTTTTGCAT 420

Db 121 TCGATGTGCTCTGCGTGTGCTGCGCTGGATTGCTTTTGCAT 180

QY 421 TTACTTCAAGGCATACCCCTTCCAAAGAGAGATTTCTGTAATGATGATGATCAAGT 480

Db 181 TTACTTCAAGGCATACCCCTTCCAAAGAGAGATTTCTGTAATGATGATGATCAAGT 240

QY 481 ACCCTTACAAGAGACACCATACCTTATCGCTTATAGTGGAAATCAATCCATTCA 540

Db 241 ACCCTTACAAGAGACACCATACCTTATCGCTTATAGTGGAAATCAATCCATTCA 300

QY 541 GTATTATCGTTATTATTTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACTCA 600

Db 301 GTATTATCGTTATTATTTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACTCA 360

QY 601 ATTCCTTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTTTTAT 660

Db 361 ATTCCTTTATCAGGAATACTACATAGCCACTATTACAAAGCCATTGGAACCTTTTAT 420

QY 661 TTGGTCAGCTGCTAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGACTGC 720

Db 421 TTGGTCAGCTGCTAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGACTGC 480

QY 721 GGCTCACTCTTGGATGTTTGTGATCCAGATGGTCAAAATCAACTCGAGCGATGTT 780

Db 481 GGCTCACTCTTGGATGTTTGTGATCCAGATGGTCAAAATCAACTCGAGCGATGTT 540

QY 781 ACATTAATCACTACATATGTCGAGGAATGCAGAAAGAGTTAAGAAAGCAGGTTCTCT 840

Db 541 ACATTAATCACTACATATGTCGAGGAATGCAGAAAGAGTTAAGAAAGCAGGTTCTCT 600

QY 841 TCTATTTCAGGCCACTCTCTGTTTCCATGCTACTGCAATGTTTGTGGCACTTTATCTTC 900

Db 601 TCTATTTCAGGCCACTCTCTGTTTCCATGCTACTGCAATGTTTGTGGCACTTTATCTTC 660

QY 901 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 960

Db 661 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 720

QY 961 TTGCCGTATCCATTTATGTGGCCCTTTCTCGAGTTTCTGATTAATAACCACTGGAGCG 1020

Db 721 TTGCCGTATCCATTTATGTGGCCCTTTCTCGAGTTTCTGATTAATAACCACTGGAGCG 780

QY 1021 ATGTGTGACTGACACTCATTCAGGGAGCTCTGTTGCAATATTTAGTGTGATATGTAT 1080

Db 781 ATGTGTGACTGACACTCATTCAGGGAGCTCTGTTGCAATATTTAGTGTGATATGTAT 840

QY 1081 CGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 1140

Db 841 CGATTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 900

QY 1141 CTCTCATGAAACCAACAACTCGGGAATCACTATCCGAGCAATCAACGCTTGAAGG 1200

Db 901 CTCTCATGAAACCAACAACTCGGGAATCACTATCCGAGCAATCAACGCTTGAAGG 960

QY 1201 CAGCAGGTCGCCAGGTCGAGCTGGCTGTTTCTTAAAGGAAATGATTGCCACAGGCA 1260



Db 1021 AGAGGATGCATCTTTCTCTCTGG 1043

RESULT 8

US-10-287-226-345  
; Sequence 345, Application US/10287226  
; Publication No. US20040086875A1  
; GENERAL INFORMATION:  
; APPLICANT: Agee, Michele L.,  
; APPLICANT: Alsobrook, John P.,  
; APPLICANT: Berghs, Constance,  
; APPLICANT: Boldog, Ference,  
; APPLICANT: Burgess, Catherine E.,  
; APPLICANT: Chant, John S.,  
; APPLICANT: Chaudhuri, Amitabha,  
; APPLICANT: DiPippo, Vincent A.,  
; APPLICANT: Edinger, Shlomit R.,  
; APPLICANT: Eissen, Andrew,  
; APPLICANT: Ellerman, Karen,  
; APPLICANT: Gangolli, Baha A.,  
; APPLICANT: Gorman, Linda,  
; APPLICANT: Gerlach, Valerie,  
; APPLICANT: Ji, Weizhen,  
; APPLICANT: Kekuda, Ramesh,  
; APPLICANT: Khramtsov, Nikolai,  
; APPLICANT: Li, Li,  
; APPLICANT: Malyankar, Uriel M.,  
; APPLICANT: MacDougall, John R.,  
; APPLICANT: Mezes, Peter S.,  
; APPLICANT: Miller, Charles E.,  
; APPLICANT: Millet, Isabelle,  
; APPLICANT: Ooi, Chean Eng,  
; APPLICANT: Ort, Tatiana,  
; APPLICANT: Padigar, Muralidhara,  
; APPLICANT: Patturajan, Meera,  
; APPLICANT: Rastelli, Luca,  
; APPLICANT: Rieger, Daniel K.,  
; APPLICANT: Rothenberg, Mark E.,  
; APPLICANT: Shenoy, Suresh G.,  
; APPLICANT: Spaderna, Steven K.,  
; APPLICANT: Spytek, Kimberley A.,  
; APPLICANT: Taupier, Jr., Raymond J.,  
; APPLICANT: Vernet, Corine A.M.,  
; APPLICANT: Zerhusen, Bryan D.,  
; APPLICANT: Zhong, Mei  
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-480C  
; CURRENT APPLICATION NUMBER: US/10/287,226  
; PRIOR FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/334,421  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,392  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/360,148  
; PRIOR FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: 60/364,000  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/404,821  
; PRIOR FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: 60/334,526  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,409  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/364,227  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/334,027  
; PRIOR FILING DATE: 2001-11-28  
; PRIOR APPLICATION NUMBER: 60/331,641  
; PRIOR FILING DATE: 2001-11-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 673  
; SOFTWARE: CuraSeqList version 0.1  
; SEQ ID NO 345

; LENGTH: 1096  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (344)..(1006)  
US-10-287-226-345  
  
Query Match 59.2%; Score 926; DB 19; Length 1096;  
Best Local Similarity 87.4%; Pred. No. 9.9e-233;  
Matches 1091; Conservative 0; Mismatches 5; Indels 152; Gaps 1;  
  
QY 36 GCACCGGGGAGGCGCGTGGAGAGGTCTCTGAGGCTTACAGAGTGCCTGGCGGTG 95  
DB 1 GCACCGGGGAGGCGCGTGGAGAGGTCTCTGAGGCTTACAGAGTGCCTGGCGGTG 60  
  
QY 96 GCACACGAGCGCTCGGCACCTAAACCGAGTGTTCGCGGGGGTGTGAGGGAGGGCCCGG 155  
DB 61 GCACACGAGCGCTCGGCACCTAAACCGAGTGTTCGCGGGGGTGTGAGGGAGGGCCCGG 120  
  
QY 156 GCGCCATTGCTGGCGGTGGAGCGCGCGGTCTCAGCGCGCTCTCGGCTGCTCTCTC 215  
DB 121 GCGCCATTGCTGGCGGTGGAGCGCGCGGTCTCAGCGCGCTCTCGGCTGCTCTCTC 180  
  
QY 216 CTCGGCTGGAGGGGCGGTATCTCGGGGCGGTCTCGCCAGCCCGCGGCTCGATAT 275  
DB 181 CTCGGCTGGAGGGGCGGTAGCTCGGGGCGGTCTCGCCAGCCCGCGGCTCGAGAT 240  
  
QY 276 CAAGGGCTCGGCGCTCGTCCCGCACCTCATTTCCATCGCCCTTGGCGGGCAGCCCGGCA 335  
DB 241 CAAGGGCTCGGCGCTCGTCCCGCACCTCATTTCCATCGCCCTTGGCGGGCAGCCCGGCA 300  
  
QY 336 GAGACATGTTTGACAAGACGCGGTGCGGTACGTGGCGCTCGATGTGCTCTGCGTGTG 395  
DB 301 GAGACATGTTTGACAAGACGCGGTGCGGTACGTGGCGCTCGATGTGCTCTGCGTGTG 360  
  
QY 396 CTGGCTGGATTGCTTTTTCGCAATTTCTTACTTCAAGGCATACCCCTTCCAACGAGGAT 455  
DB 361 CTGG----- 364  
  
QY 456 TTCTGTAATGATGAGTCCATCAAGTACCTTTACAAAGAAGACACCATACCTTTATGCTTA 515  
DB 365 ----- 364  
  
QY 516 TTAGTGAATTAATCAATTCATTCATTCAGTATTATCGTTATTATTTCTTGGAGAAACCTGTCT 575  
DB 365 -----ATTATTTCTTGGAGAAACCTGTCT 388  
  
QY 576 GTTTACTGTAACTTTTTCAGCTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTATT 635  
DB 389 GTTTACTGTAACTTTTTCAGCTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTATT 448  
  
QY 636 TACAAAGCAATTTGGAACCTTTTATTTGGTGCAGCTGTAGTCAGTCCCTGACTGACATT 695  
DB 449 TACAAAGCAATTTGGAACCTTTTATTTGGTGCAGCTGTAGTCAGTCCCTGACTGACATT 508  
  
QY 696 GCCAAGTATTCAATAGGAGAGCTGGCGCTCACTTCTTGGATGTTTGTGATCAGATTGG 755  
DB 509 GCCAAGTATTCAATAGGAGAGCTGGCGGCTCACTTCTTGGATGTTTGTGATCAGATTGG 568  
  
QY 756 TCAGAAATCACTGCAGCGAGTGTACATTGAATACTACATATGTCAGGGGAATGCAGAA 815  
DB 569 TCAGAAATCACTGCAGCGAGTGTACATTGAATACTACATATGTCAGGGGAATGCAGAA 628  
  
QY 816 AGAGTTAAGGAAGGAGGTTGTCCTTCTATTTCAGGCCACTCTTCGTTTTCATGTAAGTGC 875  
DB 629 AGAGTTAAGGAAGGAGGTTGTCCTTCTATTTCAGGCCACTCTTCGTTTTCATGTAAGTGC 688  
  
QY 876 ATGCTGTTTGTGGCACTTTTATCTTCAAGCAGGATGAAGGAGAGCTGGCAAGACTCTTA 935  
DB 689 ATGCTGTTTGTGGCACTTTTATCTTCAAGCAGGATGAAGGAGAGCTGGCAAGACTCTTA 748  
  
QY 936 CGCCCCACACTGCAATTTTGGTCTTGTTCGCGTATCCATTTATGTGGGCGCTTTTCTCGAGTT 995

Db 749 CGCCCCACACTGCAATTTGGTCTTGTTCGGGTATCCATTTATGTGGGCCCTTTCTCGAGTT 808  
Qy 996 TCTGATTATAAACACCACTGGAGCGATGTTCGACTGGACTCATTTCAGGGAGCTCTGGTT 1055  
Db 809 TCTGATTATAAACACCACTGGAGCGATGTTCGACTGGACTCATTTCAGGGAGCTCTGGTT 868  
Qy 1056 GCAATATTAGTTCGTGTATATGTATCGGATTTCTTCAAAGAAAGAACTCTTTTAAAGAA 1115  
Db 869 GCAATATTAGTTCGTGTATATGTATCGGATTTCTTCAAAGAAAGAACTCTTTTAAAGAA 928  
Qy 1116 AGAAAGAGAGAGACTCTCTATACAACTCTGCATGAAACACCAACACTGGGAATCACTAT 1175  
Db 929 AGAAAGAGAGAGACTCTCTATACAACTCTGCATGAAACACCAACACTGGGAATCACTAT 988  
Qy 1176 CCGAGCAATCACCAGCCTTGAAGAGGAGCAGGCGTCCAGGTGAAGCTGCGCTGTTTCT 1235  
Db 989 CCGAGCAATCACCAGCCTTGAAGAGGAGCAGGCGTCCAGGTGAAGCTGCGCTGTTTCT 1048  
Qy 1236 AAAGGAAATGATTGGCCAAAGGCAAGAGGATGCATCTTTTCTCTGG 1283  
Db 1049 AAAGGAAATGATTGGCCAAAGGCAAGAGGATGCATCTTTTCTCTGG 1096

## RESULT 9

US-10-191-803-154  
; Sequence 154, Application US/10191803  
; Publication No. US20040014040A1  
; GENERAL INFORMATION:  
; APPLICANT: MENDRICK, Donna  
; APPLICANT: PORTER, Mark  
; APPLICANT: JOHNSON, Kory  
; APPLICANT: HIGGS, Brandon  
; APPLICANT: CASTLE, Arthur  
; APPLICANT: ELASHOFF, Michael  
; TITLE OF INVENTION: Cardiotoxin Molecular Toxicology Modeling  
; FILE REFERENCE: 44921-5090US  
; CURRENT APPLICATION NUMBER: US/10/191,803  
; CURRENT FILING DATE: 2002-07-10  
; PRIOR APPLICATION NUMBER: US 60/303,819  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US 60/305,623  
; PRIOR FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: US 60/369,351  
; PRIOR FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: US 60/377,611  
; PRIOR FILING DATE: 2002-05-06  
; NUMBER OF SEQ ID NOS: 1140  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 154  
; LENGTH: 871  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20040014040A1 NM\_022538  
US-10-191-803-154

Query Match 40.8%; Score 635; DB 18; Length 871;  
Best Local Similarity 84.9%; Pred. No. 3.7e-156;  
Matches 736; Conservative 0; Mismatches 125; Indels 6; Gaps 2;  
Qy 334 CAGAGACCATGTTTGACAGACGCGCTGCGTACGTGGCCCTCGATGTGCTTCGCTGT 393  
Db 5 CTGTGACCATGTTTGCAGAACGCGCGCTGCGTACGTGGTCTCGATGTGATTTCGCTGT 64  
Qy 394 TGTGCTGCTGATTGCTCTTTTGCAATTTCTTACTTCAAGGCATACCCCTTCCAAACGAGGAG 453  
Db 65 TGTGCTGCTGATTGCTCTTTTATATTTTACTTTCAGGCATACCCCTTCCAAACGAGGAG 124  
Qy 454 TATCTGTATGATGATGCATCAAGTACCTTTACAAAGACACACATACCTTATGCGT 513  
Db 125 TGTTCGTACTGATGATGCATCAAGTACCTTTACAGAGAAGACACATCCCTTATGCGT 184

Qy 514 TATTAGGTGAATAATCAATTCATTTCAGTATTATCGTATTATTTCTTTGGAGAACCTGT 573  
Db 185 TATTAGGTGAATAGTCAATTCATTTCGTATTATCGTATTATTTCTTTGGAGAACCTGT 244  
Qy 574 CTGTTTACTGTAACTTTTGGCACTCAAAATTCCTTTATCAGGAATAACTACATAGCCACTA 633  
Db 245 CTGTTTACTTTAATGTCTTGGCATTTCAAATTCCTTTGTCAGCAATCACTATATAGCCACCA 304  
Qy 634 TTTACAAAGCCATTGGAACCTTTTATTTTGGTGACGTCTAGTCTAGTCCCTCAGCTGACA 693  
Db 305 TTTACAAAGCCGTGGAGCCTTTTGTGGAGCCTCAGCCAGTCAGTCCCTCAGCTGACA 364  
Qy 694 TTGCCAAGTATTCAATAGCAGACTCGGCCCTCACCTTTCTTGGATGTTTGTGATCCAGATT 753  
Db 365 TTGCTAAGTACTCTATAGCAGACTCGGCCCTCACCTTCCTGGCTGCTGTCTAACCAGACT 424  
Qy 754 GGTCAAAATCAACTGCAGCGATGGTTACATTGAATACTACATATATCGAGGAATGCGAG 813  
Db 425 GGTCAAAATCAACTGCAGCGATGGCTACATTGAGAACTTCGTATATGTCAGGGAATGAAC 484  
Qy 814 AAAGAGTTAAGGAAGCAGGTTGTCTCTTATTCAGGCCACTCTTCGTTTTCATCTACT 873  
Db 485 AGAAGTCAAGGAAGCAGGTTGTCTCTTACTCGGGGCACTCCTCATTTCTATGTACT 544  
Qy 874 GCATGCTGTTTGTGGCACTTTTATCTTCAAGCCAGGATGAAGGAGACTTGGGCAAGACTCT 933  
Db 545 GCATGCTGTTTGTGGCACTTTTATCTTCAAGCCAGGATGAAGGAGATTGGGCAAGACTCT 604  
Qy 934 TAGGCCCACTGCAATTTGGTCTTGTGGCGTATPCCATTTATGTGGGCTTTTCTCGAG 993  
Db 605 TAGGACCCATGCTACAGTTTGGCTTGTGCTTTATCCATATATGTGGGCTCTCTCGAG 664  
Qy 994 TTTCTGATTATAACACCACTGGAGCGATGTGTGACTGCACTCATTTCAGGGAGCTCTGG 1053  
Db 665 TTTCTGATTACAAACACCACTGGAGCGAGTGTAAATTGGCCCTCATTTCAAGGAGCTGTG 724  
Qy 1054 TTGCAATATTAGTGTGTATATGTATCGGATTTCTTCAAAGAAAGAACTTTCTTTAAAG 1113  
Db 725 TGGCAATATTAGTGTGTTTGTATGTAACTGATTTCTTCAAGACCACAGAGTCTTAAACAG 784  
Qy 1114 AAAGAAAGAGGAGGACTCTCATACAACTCTGCATGAAACACCAACAACTGGGAATCACT 1173  
Db 785 AAAGAAAGAA--GAGGACTCACATACGACTCTACACGAAA--CCACCAACAGACAGACT 838  
Qy 1174 ATCCGAGCAATCACCAGCCTTCAAAGG 1200  
Db 839 ACCGAAGGAATCAGGAGCCTTGAAGGG 865

## RESULT 10

US-10-152-319A-1795  
; Sequence 1795, Application US/10152319A  
; Publication No. US20040072160A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Johnson, Kory  
; APPLICANT: Higgs, Brandon  
; APPLICANT: Castle, Arthur  
; APPLICANT: Elashoff, Michael  
; TITLE OF INVENTION: Molecular Toxicology Modeling  
; FILE REFERENCE: 44921-5089-US  
; CURRENT APPLICATION NUMBER: US/10/152,319A  
; CURRENT FILING DATE: 2002-05-22  
; PRIOR APPLICATION NUMBER: US 60/292,335  
; PRIOR FILING DATE: 2001-05-22  
; PRIOR APPLICATION NUMBER: US 60/297,523  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: US 60/298,925  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: US 60/303,810  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US 60/303,807

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; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US 60/303,808
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US 60/315,047
; PRIOR FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: US 60/324,928
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US 60/330,867
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: US 60/330,462
; PRIOR FILING DATE: 2001-10-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2221
; SOFTWARE: PatentIn Ver. 2.1
; LENGTH: 871
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. NM_022538
US-10-152-319A-1795

Query Match      40.6%; Score 635; DB 19; Length 871;
Best Local Similarity 84.9%; Pred. No. 3.7e-156;
Matches 736; Conservative 0; Mismatches 125; Indels 6; Gaps 2;

QY 334 CAGAGACCAATGTTTGAACAGACGCGGTGCGGTACGTGGCCCTCGATGTGCTCTGCGTGT 393
Db 5 CTGTGACCAATGTTTGAACAGACGCGGTGCGGTACGTGGCTCTCGATGTGATTTGCGTGT 64

QY 394 TGCCTGCTGGATGCTCTTTTGCATTTCTTACTTCAAGGCATACCCCTTCCACAGAGGAG 453
Db 65 TGCCTGCTGGATGCTCTTTTATAAATCTTACTTCAAGGCATACCCCTTCCACAGAGGAG 124

QY 454 TATTTCTGTAATGATGAGTCCATCAAGTACCCCTTACAAAGACACCATACCTTATGCGT 513
Db 125 TGTTCGTACTGATGATGATCCATCAAGTACCCCTTACAGAGAGACACATCCCTTATGCGT 184

QY 514 TATTAGGTGGAATAATCATTTCCATTGATTAATGCTTATTTCTTGGAGAAACCCCTGT 573
Db 185 TATTAGGTGGAATAGTCAITTCATTCTGTATTATGCTTATGATTACTGGAGAAACTCTGT 244

QY 574 CTGTTTACTGTAACTTTTGCACCTCAAAATCCCTTATCAGGATACATACATAGCCACTA 633
Db 245 CTGTTTACTTTAATGCTTTGCAATTCAAATTCCTTTGTCAGCAATCACTATATAGCCACA 304

QY 634 TTTTAAAGCCATTGGAAACCTTTTATTTTGGTGCAGCTGCTAGTCACTCCCTGACTGACA 693
Db 305 TTTTAAAGCCGTTGGAGCCTTTTGTGGAGCCTCAGCCAGTCACTCCCTGACTGACA 364

QY 694 TTGCCAAGTATTCAATAGGCAGACTCGGCCTCACTTCTTGGAGTGTGTGATCCAGATT 753
Db 365 TTGCTAAGTACTCTATAGGCAGACTCGGCCTCACTTCTGCTGGTGTCTGTAAACCCAGACT 424

QY 754 GGTCAAAATCAACTCGCAGGATGGTTACATTGAATCACTACATATGTCAGGGAATGCGAG 813
Db 425 GGTCAAAATCAACTCGCAGGATGGTCTACATTGAGAACTTCGTATGTCGAAGGAATGAAC 484

QY 814 AAAGAGTTAAGGAAGCAGGTGCTCTTCTATTTCAGGCCACTCTCTGCTTTTCCATGTACT 873
Db 485 AGAAGTCAAGGAGGAGGAGTGTCTTCTACTCGGGGCACTCCTCATTTCTATGTACT 544

QY 874 GATGCTGTTTGGGCACATTTATCTTCAAGCCAGGATGAAGGAGACTGGGCAAGACTCT 933
Db 545 GCATGCTGTTTGGGCACATTTATCTTCAAGCCAGGATGAAGGAGATTGGGCAAGACTCT 604

QY 934 TAGCCCCACACATGCAATTTGGTCTTGTGGCCGTATCCATTATGTGGGCCCTTCTCGAG 993
Db 605 TAGGACCCATGCTACAGTTTGGGCTTGTGCTTTATCCCATATATGTGGGCCCTGCTCGAG 664

QY 994 TTTCTGATTATAACACCACTGGAGCGATGTGTGACTGGACTCATTTCAAGGGAGCTCTGG 1053
Db 665 TTTCTGATTACAAACCACTGGAGCGAGTGTATTATGGCCTCATTTCAAGGAGCTGTG 724
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QY 1054 TTGCAATATTAGTCTGTATATATATCGGATTTCTTCAAAGAAAGAACTCTTTTAAAG 1113
Db 725 TGGCAATATTAGTGGTTTGTATGTAAGTGAATTTCTTCAAGACCACAGAGTCTTAAACAAAG 784

QY 1114 AAAGAAAGAGGAGGACTCTCATCAAACTCTCATGAAACCAACCACTGGGAATCACT 1173
Db 785 AAAGAAAA--GAGGACTCACATACGACTCTTACAGAAA---CCACCAACAGACAGAGCT 838

QY 1174 ATCCGAGCAATCACCAGCCTTGAAGG 1200
Db 839 ACCCAAGGATCACAGGCCCTGAAGGG 865

RESULT 11
US-10-956-157-6340
; Sequence 6340, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956,157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6340
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-157-6340
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Query Match      38.4%; Score 600; DB 22; Length 600;
Best Local Similarity 100.0%; Pred. No. 4.8e-147;
Matches 600; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 684 CTGACTGACATTCGCAAGTATTCAATAGCGAGACTGCGCCTCACTTCTTGGATGTTGT 743
Db 1 CTGACTGACATTCGCAAGTATTCAATAGCGAGACTGCGCCTCACTTCTTGGATGTTGT 60

QY 744 GATCAGATTGTCAAAAATCAACTGCAGCGATGTTACATTAATGATACATACATATGTCGA 803
Db 61 GATCAGATTGTCAAAAATCAACTGCAGCGATGTTACATTAATGATACATACATATGTCGA 120

QY 804 GGGAAATGCAGAAAGAGTTAAGGAAGCGAGTTGTCTCTTATTTCAGGCCACTCTTCGTTT 863
Db 121 GGGAAATGCAGAAAGAGTTAAGGAAGCGAGTTGTCTCTTATTTCAGGCCACTCTTCGTTT 180

QY 864 TCCATGTACTGCATGCTGTTTGTGGCACTTTATCTTCAAGCCAGGATGAAGGAGACTGG 923
Db 181 TCCATGTACTGCATGCTGTTTGTGGCACTTTATCTTCAAGCCAGGATGAAGGAGACTGG 240

QY 924 GCAGACTCTTACGCCCCACACACTGCAATTTGCTCTTGTTCGGTATCCATTTATGTGGGC 983
Db 241 GCAGACTCTTACGCCCCACACACTGCAATTTGCTCTTGTTCGGTATCCATTTATGTGGGC 300

QY 984 CTTTCTCGAGTTTCTGATTATATAAACACCACTGAGCGATGTGTCAGCTGCACTCAATCAG 1043
Db 301 CTTTCTCGAGTTTCTGATTATATAAACACCACTGAGCGATGTGTCAGCTGCACTCAATCAG 360

QY 1044 GGAGCTCTGGTTGCAATATTAGTCTGTATATGATCGGATTTCTTCAAAGAAAGAACT 1103
Db 361 GGAGCTCTGGTTGCAATATTAGTCTGTATATGATCGGATTTCTTCAAAGAAAGAACT 420

QY 1104 TCTTTTAAAGAAAGAAAGAGAGGAGACTCTCATACAACCTGTCATGAACACCACTCAACT 1163
Db 421 TCTTTTAAAGAAAGAAAGAGAGGAGACTCTCATACAACCTGTCATGAACACCACTCAACT 480

QY 1164 GGGAAATCACTATCCGAGCAATCACCAGCCTTGAAGGAGCAGAGGTCGCCAGGTGAAGCT 1223
Db 481 GGGAAATCACTATCCGAGCAATCACCAGCCTTGAAGGAGCAGAGGTCGCCAGGTGAAGCT 540
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Qy	1224	GGCGTGT	TTCTAAAGG	AAATGATTG	CCACAAAGG	CAAGAGG	ATGCATCT	TTCTTCCTGG	1283
D <sub>b</sub>	541	GGCGTGT <th>TTCTAAAGG</th> <th>AAATGATTG</th> <th>CCACAAAGG</th> <th>CAAGAGG</th> <th>ATGCATCT</th> <th>TTCTTCCTGG</th> <td>600</td>	TTCTAAAGG	AAATGATTG	CCACAAAGG	CAAGAGG	ATGCATCT	TTCTTCCTGG	600

RESULT 13

US-10-956-157-9858/c  
; Sequence 9858, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:

## RESULT 14

US-10-956-157-4623/c  
; Sequence 4623, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:

APPLICANT: MOUNICS, WILLIAM

TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH





GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 11, 2005, 06:34:39 ; Search time 271.717 Seconds  
(without alignments)  
9430.425 Million cell updates/sec

Title: US-08-842-827-3  
Perfect score: 1566  
Sequence: 1 CCTGTGGGAGAGAGCGCGG.....CCAAAAA.....1566

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

1: /cgn2\_6/ptodata/1/ina/5A COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1298.6	82.9	1315	3	US-08-992-035A-2
2	265	16.9	266	4	US-09-016-434-322
3	216.2	13.8	1303	4	US-09-566-921-117
4	151.8	9.7	231	3	US-09-439-313-456
5	151.8	9.7	231	3	US-09-352-616A-456
6	151.8	9.7	231	4	US-09-636-215-456
7	151.8	9.7	231	4	US-09-685-166A-456
8	151.8	9.7	231	4	US-09-679-426-456
9	151.8	9.7	231	4	US-09-759-143-456
10	151.8	9.7	231	4	US-09-651-236-456
11	151	9.6	151	3	US-09-439-313-316
12	151	9.6	151	3	US-09-352-616A-316
13	151	9.6	151	3	US-09-232-149A-316
14	151	9.6	151	4	US-09-636-215-316
15	151	9.6	151	4	US-09-685-166A-316
16	151	9.6	151	4	US-09-688-489-316
17	151	9.6	151	4	US-09-679-426-316
18	151	9.6	151	4	US-09-759-143-316
19	151	9.6	151	4	US-09-651-236-316
20	137.2	8.8	472	4	US-09-702-705-273
21	137.2	8.8	472	4	US-09-736-457-273
22	137.2	8.8	472	4	US-09-614-124B-273
23	137.2	8.8	472	4	US-09-671-325-273
24	137.2	8.8	472	4	US-09-589-184-273
25	137.2	8.8	472	4	US-09-658-824-273
26	135.6	8.7	434	4	US-09-702-705-1590
27	135.6	8.7	434	4	US-09-736-457-1590

28	135.6	8.7	434	4	US-09-614-124B-1590	Sequence 1590, Ap
29	135.6	8.7	434	4	US-09-671-325-1590	Sequence 1590, Ap
30	135.6	8.7	434	4	US-09-658-824-1590	Sequence 1590, Ap
31	134.6	8.6	472	4	US-09-702-705-342	Sequence 342, App
32	134.6	8.6	472	4	US-09-736-457-342	Sequence 342, App
33	134.6	8.6	472	4	US-09-614-124B-342	Sequence 342, App
34	134.6	8.6	472	4	US-09-671-325-342	Sequence 342, App
35	134.6	8.6	472	4	US-09-589-184-342	Sequence 342, App
36	134.6	8.6	472	4	US-09-658-824-342	Sequence 342, App
37	118.4	7.6	308	2	US-08-721-488-4	Sequence 4, Appl
38	113	7.2	113	4	US-09-016-434-282	Sequence 282, App
39	102.4	6.5	217	4	US-09-016-434-286	Sequence 286, App
40	91.4	5.8	272	4	US-09-360-376-28	Sequence 28, Appl
41	59.8	3.8	1967	4	US-09-370-767-11662	Sequence 11662, A
42	58.4	3.7	253	4	US-09-016-434-301	Sequence 301, App
43	58	3.7	2406	4	US-09-976-594-119	Sequence 119, App
44	48.4	3.1	166898	4	US-09-949-016-16038	Sequence 16038, A
45	47.4	3.0	7218	1	US-08-232-463-14	Sequence 14, Appl

#### ALIGNMENTS

RESULT 1  
US-08-992-035A-2  
; Sequence 2, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/992,035A  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1315 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT06  
; CLONE: 1719418  
; US-08-992-035A-2

Query Match 82.9%; Score 1298.6; DB 3; Length 1315;  
Best Local Similarity 99.3%; Pred. No. 0;  
Matches 1304; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 248 TCGCCAGCCCGCCCGGCTCGATTAATCAAGGGCCCTCGGCCGCTCGCTCCGCGACCTCATTT 307  
Db 3 TCGCCAGCCCGCCCGGCTCGAGAAATCAAGGGCCCTCGGCCGCTCGCTCCGCGACCTCATTT 62  
QY 308 CCATCGCCCTTGCCTGGGAGCCCGGCGAGAGCCATGTTTGAACAAGCGCGGCTGCCGTA 367  
Db 63 CCATCGCCCTTGCCTGGGAGCCCGGCGAGAGCCATGTTTGAACAAGCGCGGCTGCCGTA 122  
QY 368 CBTGGCCCTCGATGCTCTGCGTGTGCTGGCTTCCATGCCCTATGCTGCTTCTAAATTT 427  
Db 123 CBTGGCCCTCGATGCTCTGCGTGTGCTGGCTTCCATGCCCTATGCTGCTTCTAAATTT 182  
QY 428 GGGCCAAATATATCCATTTTCAGAGAGCCCTTTTCTGTAAGACAACAGCATCAATCC 487  
Db 183 GGGCCAAATATATCCATTTTCAGAGAGCCCTTTTCTGTAAGACAACAGCATCAATCC 242  
QY 488 GTACCATGACAGTACCAGCCGATCCACTGTCCTCATCTAGTGGGGGTTGGCTTGCCT 547  
Db 243 GTACCATGACAGTACCAGCCGATCCACTGTCCTCATCTAGTGGGGGTTGGCTTGCCT 302  
QY 548 TTCTCTATTTTCTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACCTCAAAATTC 607  
Db 303 TTCTCTATTTTCTTGGAGAAACCTGCTGTTTACTGTAACCTTTTGCACCTCAAAATTC 362  
QY 608 CTTTATCAGTAATACATAGCCACTATTTTCAAGGCCATTTGGAACCTTTTATTTGG 667  
Db 363 CTTTATCAGGAATAACTATAGCCACTATTTTCAAGGCCATTTGGAACCTTTTATTTGG 422  
QY 668 TGCAGCTGCTAGTCAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGAGCTCGGCC 727  
Db 423 TGCAGCTGCTAGTCAGTCCCTGACTGACATTCGCAAGTATTCATAGGAGAGCTCGGCC 482  
QY 728 TCACCTTCTTGGATGTTTGTGATCCAGATTTGGTCAAAATCAATGCGAGCGATGGTTACAT 787  
Db 483 TCACCTTCTTGGATGTTTGTGATCCAGATTTGGTCAAAATCAATGCGAGCGATGGTTACAT 542  
QY 788 TGAATACATATGTCAGGAGGAAATCAGAAAGATTAAGGAAGGAGGTGCTCTTCTA 847  
Db 543 TGAATACATATGTCAGGAGGAAATCAGAAAGATTAAGGAAGGAGGTGCTCTTCTA 602  
QY 848 TTCAGGCCACTCTTCTGTTTTCATGTCATGCTGTTTGGGACTTTTATCTTCAAGC 907  
Db 603 TTCAGGCCACTCTTCTGTTTTCATGTCATGCTGTTTGGGACTTTTATCTTCAAGC 662  
QY 908 CAGGATGAAGGAGAGCTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTGTGC 967  
Db 663 CAGGATGAAGGAGAGCTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTGTGC 722  
QY 968 CGTATCCATTTATGTTGGGCTTTCTCGAGTTTCTGATTTATTAACACCACTGGAGCGATGT 1027  
Db 723 CGTATCCATTTATGTTGGGCTTTCTCGAGTTTCTGATTTATTAACACCACTGGAGCGATGT 782  
QY 1028 GTTGACTGACACTATTTCAGGAGCTCTGTTGCAATATTAGTTGCTGTATATGATCGGA 1087  
Db 783 GTTGACTGACACTATTTCAGGAGCTCTGTTGCAATATTAGTTGCTGTATATGATCGGA 842  
QY 1088 TTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATCAACTCT 1147  
Db 843 TTTCTTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATCAACTCT 902  
QY 1148 GCATGAACACCACTGGGATCACTATCCGAGCAATCACCAGCCTTGAAGGAGC 1207  
Db 903 GCATGAACACCACTGGGATCACTATCCGAGCAATCACCAGCCTTGAAGGAGC 962  
QY 1208 AGGTGCCCCAGGTGAAGCTGGCTGTTTCTAAAGGAAATGATTCGCCAAGGCAAGAG 1267  
Db 963 AGGTGCCCCAGGTGAAGCTGGCTGTTTCTAAAGGAAATGATTCGCCAAGGCAAGAG 1022  
QY 1268 GATGATCTTTCTTCTGCTGTGTAACAAGCCTTTTAAAGACTTCTGCTGCTGATATGCTCTT 1327  
Db 1023 GATGATCTTTCTTCTGCTGTGTAACAAGCCTTTTAAAGACTTCTGCTGCTGATATGCTCTT 1082

QY 1328 GGATGCACACTTTGTGTGTACATAGTTTAACTCAGTGGTTTATCTAATAGCTCTAA 1387  
Db 1083 GGATGCACACTTTGTGTGTGTACATAGTTTAACTCAGTGGTTTATCTAATAGCTCTAA 1142  
QY 1388 ACTCATTTAAAAAACTCCAAAGCTTCCACCAAAACAGTGCCCACTGTATACATTTTA 1447  
Db 1143 ACTCATTTAAAAAACTCCAAAGCTTCCACCAAAACAGTGCCCACTGTATACATTTTA 1202  
QY 1448 TTAATAAATGTAATGCTTATGTATTAACATGTATGTATATGCTTTTCTATGAATGATGT 1507  
Db 1203 TTAATAAATGTAATGCTTATGTATTAACATGTATGTATATGCTTTTCTATGAATGATGT 1262  
QY 1508 TTGATTTAAATATATACATATTAATAATGTATGGAGAACCAAAAAA 1560  
Db 1263 TTGATTTAAATATATACATATTAATAATGTATGGAGAACCAAAAAA 1315

## RESULT 2

US-09-016-434-322  
; Sequence 322, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016.434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 322:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 266 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PROSNOT18  
; CLONE: 1859317  
; US-09-016-434-322

Query Match 16.9%; Score 265; DB 4; Length 266;  
Best Local Similarity 99.6%; Pred. No. 1.5e-63;  
Matches 265; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 852 GGCCACTCTTCGTTTTCATGCTGCTGTTTGGCACTTTATCTTCAAGCCAGG 911  
Db 1 GGCCACTCTTCGTTTTCATGCTGCTGTTTGGCACTTTATCTTCAAGCCAGG 60



QY 659 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 705  
|||||  
Db 185 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 231  
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## RESULT 5

US-09-352-616A-456  
; Sequence 456, Application US/09352616A  
; Patent No. 6395278  
; GENERAL INFORMATION:  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Harlocker, Susan Louise  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Mitcham, Jennifer Lynn  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.427C8  
; CURRENT APPLICATION NUMBER: US/09/352,616A  
; CURRENT FILING DATE: 1999-07-13  
; NUMBER OF SEQ ID NOS: 472  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 456  
; LENGTH: 231  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-352-616A-456

Query Match 9.7%; Score 151.8; DB 3; Length 231;  
Best Local Similarity 79.3%; Pred. No. 4.2e-32;  
Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 479 CAACTATCGTACCATGACAGTACCGCCGATCCACTGTCCTCATCTAGTGGGGTGG 538  
|||  
Db 5 CAGGTACCCCTTACAAAGAACACCATACCTTATGCGTTATTAGGTGAATAATCATTC 64  
|||  
QY 539 CTGGCCCGTTCTCTTATTCTTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 598  
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Db 65 ATTCAATTCCTTATCGTTATTCTTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 124  
|||  
QY 599 CTCAAATTCCTTATCAGTAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 658  
|||  
Db 125 CTCAAATTCCTTATCAGTAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184  
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QY 659 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 705  
|||||  
Db 185 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 231  
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## RESULT 6

US-09-636-215-456  
; Sequence 456, Application US/09636215  
; Patent No. 6620922  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42717C17  
; CURRENT APPLICATION NUMBER: US/09/636,215  
; CURRENT FILING DATE: 2000-08-10  
; NUMBER OF SEQ ID NOS: 852  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 456  
; LENGTH: 231  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-636-215-456

Query Match 9.7%; Score 151.8; DB 4; Length 231;  
Best Local Similarity 79.3%; Pred. No. 4.2e-32;  
Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 479 CAACTATCGTACCATGACAGTACCGCCGATCCACTGTCCTCATCTAGTGGGGTGG 538  
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Db 5 CAGGTACCCCTTACAAAGAACACCATACCTTATGCGTTATTAGGTGAATAATCATTC 64  
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QY 539 CTGGCCCGTTCTCTTATTCTTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 598  
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Db 65 ATTCAATTCCTTATCGTTATTCTTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGA 124  
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QY 599 CTCAAATTCCTTATCAGTAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 658  
|||  
Db 125 CTCAAATTCCTTATCAGTAATACTACATAGCCACTATTACAAAGCCATTGGAACCTT 184  
|||  
QY 659 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 705  
|||||  
Db 185 TTTATTGGTGCAGCTAGTACGTCCTCCCTGACTGACATTTGCCAAGT 231  
|||||

## RESULT 7

US-09-685-166A-456  
; Sequence 456, Application US/09685166A  
; Patent No. 6630305  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuqui  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER  
; FILE REFERENCE: 210121.427C21  
; CURRENT APPLICATION NUMBER: US/09/685,166A  
; CURRENT FILING DATE: 2000-10-10  
; NUMBER OF SEQ ID NOS: 898  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 456  
; LENGTH: 231  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-685-166A-456

Query Match 9.7%; Score 151.8; DB 4; Length 231;  
Best Local Similarity 79.3%; Pred. No. 4.2e-32;  
Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 479 CAACTATCGTACCATGACAGTACCGCCGATCCACTGTCCTCATCTAGTGGGGTGG 538  
|||

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Db      5  CAGGTACCTTTACAAAGACACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64
QY      539  CTTGCCCGTTTCCTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 598
          |||
Db      65  ATTCAATATTATCGTTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 124
QY      599  CTCAAATTCCTTTATCAGTAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 658
          |||
Db      125  CTCAAATTCCTTTATCAGGAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 184
QY      659  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 705
          |||
Db      185  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 231

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RESULT 8

US-09-679-426-456  
 ; Sequence 456, Application US/09679426  
 ; Patent No. 6759515

; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Jiang, Yuqi  
 ; APPLICANT: Henderson, Robert A.  
 ; APPLICANT: Kalos, Michael D.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Stolck, John A.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: Carter, Darrick  
 ; APPLICANT: Li, Samuel  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A.W.  
 ; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 ; FILE REFERENCE: 210121.427C20  
 ; CURRENT FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 895  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 456  
 ; LENGTH: 231  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-679-426-456

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Best Local Similarity 79.3%; Pred. No. 4.2e-32;
Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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Db      5  CAGGTACCTTTACAAAGACACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64
QY      539  CTTGCCCGTTTCCTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 598
          |||
Db      65  ATTCAATATTATCGTTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 124
QY      599  CTCAAATTCCTTTATCAGTAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 658
          |||
Db      125  CTCAAATTCCTTTATCAGGAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 184
QY      659  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 705
          |||
Db      185  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 231

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RESULT 9

US-09-759-143-456

; Sequence 456, Application US/09759143  
 ; Patent No. 6800746

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Jiang, Yuqi  
 ; APPLICANT: Henderson, Robert A.  
 ; APPLICANT: Kalos, Michael D.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Stolck, John A.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: Carter, Darrick  
 ; APPLICANT: Li, Samuel  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A.W.  
 ; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 ; FILE REFERENCE: 210121.427C23  
 ; CURRENT FILING DATE: 2001-01-12  
 ; NUMBER OF SEQ ID NOS: 934  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 456  
 ; LENGTH: 231  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-759-143-456

Query Match 9.7%; Score 151.8; DB 4; Length 231;  
 Best Local Similarity 79.3%; Pred. No. 4.2e-32;  
 Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

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QY      479  CAACTATCGTACCATGACAGTACCGCCGATCCCTCATCTAGTGGGGTGG 538
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Db      65  ATTCAATATTATCGTTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 124
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RESULT 10

US-09-651-236-456

; Sequence 456, Application US/09651236  
 ; Patent No. 6818751

; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Mitcham, Jennifer L.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Jiang, Yuqi  
 ; APPLICANT: Henderson, Robert A.  
 ; APPLICANT: Kalos, Michael D.  
 ; APPLICANT: Fanger, Gary R.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Stolck, John A.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Vedvick, Thomas S.  
 ; APPLICANT: Carter, Darrick  
 ; APPLICANT: Li, Samuel

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 ; FILE REFERENCE: 210121.427C20  
 ; CURRENT FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 895  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 456  
 ; LENGTH: 231  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-651-236-456

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Query Match          9.7%; Score 151.8; DB 4; Length 231;
Best Local Similarity 79.3%; Pred. No. 4.2e-32;
Matches 180; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY      479  CAACTATCGTACCATGACAGTACCGCCGATCCCTCATCTAGTGGGGTGG 538
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Db      5  CAGGTACCTTTACAAAGACACACCATACCTTATGCGTTATTAGGTGGAATAATCATTC 64
QY      539  CTTGCCCGTTTCCTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 598
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Db      65  ATTCAATATTATCGTTATTATTCTTGGAGAAACCCCTGCTGTTTACTGTAAACCTTTTGCA 124
QY      599  CTCAAATTCCTTTATCAGTAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 658
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Db      125  CTCAAATTCCTTTATCAGGAATAACTACATAGGCACTATTATCAAAAGCCATTGGAACCTT 184
QY      659  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 705
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Db      185  TTTATTGGTGACGTGCTAGTCAGTCCCTGACTGACATTGCCAAGT 231

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## RESULT 14

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US-09-636-215-316
; Sequence 316, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiaangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqul
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Hepier, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq For Windows Version 3.0
; SEQ ID NO 316
; LENGTH: 151
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-685-166A-316

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Job time : 273.717 secs

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US-09-685-166A-316  
; Sequence 316, Application US/09685166A  
; Patent No. 6630305  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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Perfect score: 1566  
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Listing first 45 summaries

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SUMMARIES

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3	1199.4	76.6	1388	19	US-10-287-226-347
4	921.4	58.8	1096	19	US-10-287-226-345
5	876.2	56.0	1043	20	US-10-647-426-21

6	876.2	56.0	1043	21	US-10-643-795A-57	Sequence 57, Appl
7	876.2	56.0	1043	22	US-10-948-518-57	Sequence 57, Appl
8	876.2	56.0	1043	22	US-10-956-157-1105	Sequence 1105, Ap
9	600	38.3	600	22	US-10-956-157-6340	Sequence 6340, Ap
10	510	32.6	871	18	US-10-191-803-154	Sequence 154, App
11	510	32.6	871	19	US-10-152-319A-1795	Sequence 1795, Ap
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14	482.8	30.8	3947	22	US-10-956-157-4623	Sequence 4623, Ap
15	482.8	30.8	26197	9	US-09-764-847-1965	Sequence 1965, Ap
16	482.8	30.8	26197	15	US-10-092-154-1965	Sequence 1966, Ap
17	482.8	30.8	26210	9	US-09-764-847-1966	Sequence 1966, Ap
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24	422	26.9	543	21	US-10-357-930-39311	Sequence 9132, Ap
25	407.8	26.0	695	21	US-10-357-930-9132	Sequence 40353, A
26	390.6	24.9	436	18	US-10-242-535A-40353	Sequence 40353, A
27	390.6	24.9	436	19	US-10-085-783A-40353	Sequence 40353, A
28	354.8	22.7	423	10	US-09-930-213-243	Sequence 243, App
29	283.6	18.1	295	18	US-10-242-535A-33407	Sequence 33407, A
30	283.6	18.1	295	19	US-10-085-783A-33407	Sequence 3562, Ap
31	275.8	17.6	460	18	US-10-242-535A-3562	Sequence 3562, Ap
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33	265	16.9	266	18	US-10-305-720-322	Sequence 322, App
34	237	15.1	959	21	US-10-363-345A-33205	Sequence 33205, A
35	237	15.1	959	21	US-10-363-345A-33206	Sequence 33206, A
36	237	15.1	959	22	US-10-363-483A-33205	Sequence 33205, A
37	237	15.1	959	22	US-10-363-483A-33206	Sequence 33206, A
38	237	15.1	960	21	US-10-363-345A-36051	Sequence 36051, A
39	237	15.1	960	21	US-10-363-345A-36052	Sequence 36052, A
40	237	15.1	960	22	US-10-363-483A-36051	Sequence 36051, A
41	237	15.1	960	22	US-10-363-483A-36052	Sequence 36052, A
42	230	14.7	271	18	US-10-242-535A-47721	Sequence 47721, A
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44	217.8	13.9	1269	20	US-10-647-426-25	Sequence 25, Appl
45	216.2	13.8	1303	24	US-10-765-700-117	Sequence 117, App

ALIGNMENTS

RESULT 1

US-10-764-425-61  
; Sequence 61, Application US/10764425  
; Publication No. US20040146921A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Pharmaceuticals Corporation  
; APPLICANT: Eveleigh, Deepa  
; APPLICANT: Bigwood, Douglas  
; APPLICANT: Taylor, Ian  
; TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE  
; FILE REFERENCE: 5151  
; CURRENT APPLICATION NUMBER: US/10764,425  
; PRIOR FILING DATE: 2004-01-23  
; PRIOR APPLICATION NUMBER: 60/442,582  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 191  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 61  
; LENGTH: 1566  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-764-425-61

Query Match 100.0%; Score 1566; DB 24; Length 1566;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1566; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 CTTGTGGGAGAGCCCGGATCCCGACGGGTAGCAACCGGGGAGCGCGTGC CGGT 60  
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QY 121 GAGTGTTCGGGGGCTGTGAGGGAGGGCCCGGGCGCCATTGCTGGCGTGGGAGCG 180  
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; Publication No. US20040259086A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Endege, Wilson  
; APPLICANT: Monahan, John  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF  
; TITLE OF INVENTION: HUMAN PROSTATE CANCER  
; FILE REFERENCE: MRI-007BCN  
; CURRENT APPLICATION NUMBER: US/10/357,930  
; CURRENT FILING DATE: 2003-02-04  
; PRIOR APPLICATION NUMBER: 09/785,276  
; PRIOR FILING DATE: 2003-02-16  
; PRIOR APPLICATION NUMBER: 60/183,319  
; PRIOR FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: 60/189,862  
; PRIOR FILING DATE: 2000-03-16  
; PRIOR APPLICATION NUMBER: 60/207,454  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: 60/211,314  
; PRIOR FILING DATE: 2000-06-09  
; PRIOR APPLICATION NUMBER: 60/219,007  
; PRIOR FILING DATE: 2000-07-18  
; PRIOR APPLICATION NUMBER: 60/255,281  
; PRIOR FILING DATE: 2000-12-13  
; NUMBER OF SEQ ID NOS: 62232  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25877  
; LENGTH: 1703  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 1697, 1698, 1699, 1700, 1701, 1702,  
; LOCATION: 1703

; OTHER INFORMATION: n = A, T, C or G  
US-10-357-930-25877

Query Match	89.1%	Score 1396;	DB 21;	Length 1703;
Best Local Similarity	94.3%	Pred. NO. 0;		
Matches 1471; Conservative	0;	Mismatches 85;	Indels 4;	

QY	1	CCTGTGGGAGAGCGCCGGATCGGACGGGGTAGCAACCGGGGACGGCGTGC	60
Db	109	CCTGTGGGAGAGCGCCGGATCGGACGGG-AGCAACCGGGGACGGCGTGC	167
QY	61	GAGAGGTCTCTAGGCTACAGAGCTCGCGCGCTGGCACAGAGCGCTCGGCACTACC	120
Db	168	GAGAGGTCTGAGGCTACAGAGCTCGCGCGCTGGCACAGAGGCTCTGGCACTACC	227
QY	121	GAGTGTTCGGGGGGCTGTGAGGGAGGGCCCCGGGGCCCAATTGCTGGCGTGGAGCGC	180
Db	228	GAGTGTTCGGGGGGCTGTGAGGGAGGGCCCCGGGGCCCAATTGCTGGCGTGGAGCGC	287
QY	181	CGCCCGGTCTCAGCGCGCCCTCGCTCTCTCTCTCGGCTGGAGGGGCGGTATCTC	240
Db	288	CGCCCGGTCTCAGCGCGCCCTCGCTCTCTCTCTCGGCTGGAGGGGCGGTAGCTC	347
QY	241	GGGGCCGTTCGACAGCCCCGGGCTCGATAATCAAGGGCTCTGGCGCTCGCCCGCA	300
Db	348	GGGGCCGTTCGACAGCCCCGGGCTCGAGAATCAAGGGCTCTGGCGCTCGCCCGCA	407
QY	301	CCCTCATTTCCATCGGCTTTCGGGACGCCGGGACAGACCATGTTTGACAAGAGCGGC	360
Db	408	GCTCAGTTCATTCGCTTTCGGGACGCCGGGACAGACCATGTTTGACAAGAGCGGC	467
QY	361	TGCGGTACGTGGCCCTCGATGTCTCTCGCGTGTCTGGCTTCCATGCCATGTGCTTC	420
Db	468	TGCGGTACGTGGCCCTCGATGTCTCTCGCGTGTCTGGCTTCCATGTGCTTCGAAATTC	527
QY	421	TAAAAATGGGCAAAATATTCATTTACAGAGAGCTTTTCTGTAAAGACAACAGATCA	480
Db	528	TTACTTCAAGGCATA---CCCCCTTCAACGAGGAGTATTCGTGTAAATGATGAGTCCATCA	584
QY	481	ACTATCCGTACCATGACAGTACGCCGCATCCATCTGCTCATCTAGTGGGGTGGCT	540
Db	585	AGTACCCCTTACAAGAGACACCATACCTTATGCGTTATTAGGTGGAAATATCATTCAT	644
QY	541	TGCCCGTTTCTCTATTATTTCTGGAAACCCTGTCTGTTTACTGTAAACCTTTTGCACT	600
Db	645	TCAGTATTATCGTTATTATTTCTGGAAACCCTGTCTGTTTACTGTAAACCTTTTGCACT	704
QY	601	CAAAATTCCTTTATCAGTAATAATACATAGCCATATTACAAGCCATTTGGACCTTTT	660
Db	705	CAAAATTCCTTTATCAGGAATAATACATAGCCATATTACAAGCCATTTGGAACTTTT	764
QY	661	TATTTGGTGCAGCTGTAGTCAGTCCCTGACTGACATTTGCCAAGTATTCATAGGCGAGC	720
Db	765	TATTTGGTGCAGCTGTAGTCAGTCCCTGACTGACATTTGCCAAGTATTCATAGGCGAGC	824
QY	721	TGGGCGCTCACTTCTGGATGTTTGATCCAGATTGGTCAAAATCAACTGACGCGATG	780
Db	825	TGGGCGCTCACTTCTGGATGTTTGATCCAGATTGGTCAAAATCAACTGACGCGATG	884
QY	781	GTTACATTGAATACTACATATGTCAGGGGAATGCAGAAAGAGTTTAAGGAAGGCGAGTTGT	840
Db	885	GTTACATTGAATACTACATATGTCAGGGGAATGCAGAAAGAGTTTAAGGAAGGCGAGTTGT	944
QY	841	CTTCTTATTCAGGCACTCTTCGTTTTCATGTACTGCATGCTGTGTTGTGGCACTTTATC	900
Db	945	CTTCTTATTCAGGCACTCTTCGTTTTCATGTACTGCATGCTGTGTTGTGGCACTTTATC	1004
QY	901	TTCAAGCCAGGATGAAGGGAGACTGGGCAAGACTTTTACGCCCCACACTTCGAAATTTGGTC	960
Db	1005	TTCAAGCCAGGATGAAGGGAGACTGGGCAAGACTTTTACGCCCCACACTTCGAAATTTGGTC	1064
QY	961	TTGTGCGCGTATCCATTTATGTGGGCCCTTTCTCGAGTTTCTGATTTATAAACACCACTTGA	1020

```
; APPLICANT: Rothenberg, Mark E.,
; APPLICANT: Shenoy, Suresh G.,
; APPLICANT: Spaderina, Steven K.,
; APPLICANT: Spytek, Kimberley A.,
; APPLICANT: Taupier, Jr., Raymond J.,
; APPLICANT: Vernet, Corine A.M.,
; APPLICANT: Zerhusen, Bryan D.,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-480C
; CURRENT APPLICATION NUMBER: US/10/287,226
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/334,421
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,392
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/360,148
; PRIOR FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/364,000
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/404,821
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 60/334,526
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,409
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/364,227
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/334,027
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: 60/331,641
; PRIOR FILING DATE: 2001-11-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 673
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 147
; LENGTH: 1388
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (357)..(1019)
US-10-287-226-347

Query Match 76.6%; Score 1199.4; DB 19; Length 1388;
Best Local Similarity 89.2%; Pred. No. 2.7e-306;
Matches 1371; Conservative 0; Mismatches 11; Indels 155; Gaps 1;

QY 29 CGGGGTAGCAACCGGGGAGGCGGTGCGGCTGAGGAGGTCTCTGAGGCTACAGAGTCC 88
DB 7 CGTCGACGCAACCGGGGAGGCGGTGCGGCTGAGGAGGTCTCTGAGGCTACAGAGTCC 66
QY 89 GCGGCTGGCACACGAGCGCTCGGCCTAACCGAGTGTTCGCGGGGGCTGTGAGGGGAGG 148
DB 67 GCGGCTGGCACACGAGCGCTCGGCCTAACCGAGTGTTCGCGGGGGCTGTGAGGGGAGG 126
QY 149 GCGCGGGGCGCCATTGCTGCGGTGGGAGCGCGCGCGGTCTCAGCGCGCGCTCGGCTGC 208
DB 127 GCGCGGGGCGCCATTGCTGCGGTGGGAGCGCGCGCGGTCTCAGCGCGCGCTCGGCTGC 186
QY 209 TCTCTCTCTCGGCTGGGAGGCGGTATCTCGGGGCGGTGCGGCGCGCGCGCGGCT 268
DB 187 TCTCTCTCTCGGCTGGGAGGCGGTATCTCGGGGCGGTGCGGCGCGCGCGCGGCT 246
QY 269 CGATAATCAAGGCGCTCGGCGGTGCTCCGCACTCATTCATCGCCCTTTCGCGGCGAG 328
DB 247 CGAGATCAAGGCGCTCGGCGCGGTGCTCCGCACTCATTCATCGCCCTTTCGCGGCGAG 306
QY 329 CGGGGAGAGACCATGTTTGACAAGACGCGGCTGCGGTAGTGGGCGCTCGATGTCTCTG 388
DB 307 CGGGGAGAGACCATGTTTGACAAGACGCGGCTGCGGTAGTGGGCGCTCGATGTCTCTG 366
QY 389 CGGTGTGCTGCTTCATGCTATGCTGTCTTCTAAATTTGGGCGCAATATATCATTTCA 448

; 367 CGTGTGCTGG----- 377
; 449 GAGAGGCTTTTCTGTAAAGACAACAGCATCAACTATCGTACCATGACAGTACGCCGCG 508
; 378 ----- 377
; 509 ATCCACTGTCCTCATCTCTAGTGGGGTGGCTTGCOCGTTTCTCTATTATTCTTGGAGA 568
; 378 -----ATTATTCTTGGAGA 391
; 569 AACCTGTCTGTCTTACTGTAACTTTTGCACCTCAAAATTCCTTTATCATAGTAATACTACAT 628
; 392 AACCTGTCTGTCTTACTGTAACTTTTGCACCTCAAAATTCCTTTATCATAGTAATACTACAT 451
; 629 AGCCACTATTATACAAAGCCATTGGAACTTTTATTTGGTGCAGCTGCTAGTCAGTCCCT 688
; 452 AGCCACTATTATACAAAGCCATTGGAACTTTTATTTGGTGCAGCTGCTAGTCAGTCCCT 511
; 689 GACTGACATTTGCCAAAGTATTCAATAGGAGAGCTGCGGGCTCACTTCTTGGATGTTTGTGA 748
; 512 GACTGACATTTGCCAAAGTATTCAATAGGAGAGCTGCGGGCTCACTTCTTGGATGTTTGTGA 571
; 749 TCCAGATTGGTCAAAATCAACTGCGAGGATGGTTTACATTTGAATTAATACTATATGTCGAGG 808
; 572 TCCAGATTGGTCAAAATCAACTGCGAGGATGGTTTACATTTGAATTAATACTATATGTCGAGG 631
; 809 GAATGCAGAAAGAGTTAAGGAGGAGGTTGTCTTCTATTTCAGGCCACTCTTCGTTTTTC 868
; 632 GAATGCAGAAAGAGTTAAGGAGGAGGTTGTCTTCTATTTCAGGCCACTCTTCGTTTTTC 691
; 869 CATGTACTGATGCTGTTTGTGGCACTTTATCTTCAAGCCAGATGAAGGAGAGCTGGGC 928
; 692 CATGTACTGATGCTGTTTGTGGCACTTTATCTTCAAGCCAGATGAAGGAGAGCTGGGC 751
; 929 AAGACTCTTACGCCCCACACTGCAATTTGGTCTGTCGCGTATCCATTTATGTTGGGCT 988
; 752 AAGACTCTTACGCCCCACACTGCAATTTGGTCTGTCGCGTATCCATTTATGTTGGGCT 811
; 989 TTCTCGAGTTTCTGATTTATAACACACACTGGAGCGATGTTGACTGGAGTCAATTCAGGG 1048
; 812 TTCTCGAGTTTCTGATTTATAACACACACTGGAGCGATGTTGACTGGAGTCAATTCAGGG 871
; 1049 AGCTCTGTTGCAATATTAGTTGCTGTATATGATGTCGATTCGATTTCTTCAAGAAAGAACTTC 1108
; 872 AGCTCTGTTGCAATATTAGTTGCTGTATATGATGTCGATTTCTTCAAGAAAGAACTTC 931
; 1109 TTTTAAAGAAAGAAAGAGGAGGAGTCTCATACAACCTCTGCATGAAACACCAACAACTGG 1168
; 932 TTTTAAAGAAAGAAAGAGGAGGAGTCTCATACAACCTCTGCATGAAACACCAACAACTGG 991
; 1169 GAATCACTATCCGAGCAATCACAGCCTTTGAAAGGAGCAGGAGTGCACAGGTGAAGCTGG 1228
; 992 GAATCACTATCCGAGCAATCACAGCCTTTGAAAGGAGCAGGAGTGCACAGGTGAAGCTGG 1051
; 1229 CTTGTTTCTTAAAGGAAATGATTTGCCACAAGGAGAGGATGCACTCTTTCTTCTGTTG 1288
; 1052 CTTGTTTCTTAAAGGAAATGATTTGCCACAAGGAGAGGATGCACTCTTTCTTCTGTTG 1111
; 1289 TACAAGCCTTTTAAAGACTTCTGCTGATATGCTCTTTGGATGCACTCTTTGTTGTATAC 1348
; 1112 TACAAGCCTTTTAAAGACTTCTGCTGATATGCTCTTTGGATGCACTCTTTGTTGTATAC 1171
; 1349 ATAGTTTACCTTTTAACTCAGTGGTATTAATAGCTCTAACTCAATTTAAATAAATCTCAAG 1408
; 1172 ATAGTTTACCTTTTAACTCAGTGGTATTAATAGCTCTAACTCAATTTAAATAAATCTCAAG 1231
; 1409 CTTTCCACCAAAACAGTGGCGCCACCTGTATACATTTTATTTAAATAAATGTAATGCTTAT 1468
; 1232 CTTTCCACCAAAACAGTGGCGCCACCTGTATACATTTTATTTAAATAAATGTAATGCTTAT 1291
; 1469 GTATATAACATGATGTAAATATGCTTCTATGAATGATGTTTGAATTAATAATACATA 1528
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Db 1292 GTATAACATGATGTAATATGCTTTCTATGAATGATGTTTGAATTTAAATATAATACATA 1351  
Qy 1529 TTTAAATGTATGGAGAACCAAAAAA 1565  
Db 1352 TTTAAATGTATGGAGAACCAAAAAA 1388

RESULT 4

US-10-287-226-345  
; Sequence 345, Application US/10287226  
; Publication No. US20040086875A1  
; GENERAL INFORMATION:  
; APPLICANT: Agee, Michele L.,  
; APPLICANT: Alsobrook, John P.,  
; APPLICANT: Berghs, Constance,  
; APPLICANT: Boldog, Ference,  
; APPLICANT: Burgess, Catherine E.,  
; APPLICANT: Chant, John S.,  
; APPLICANT: Chaudhuri, Amitabha,  
; APPLICANT: DiPippo, Vincent A.,  
; APPLICANT: Edinger, Shlomit R.,  
; APPLICANT: Eisen, Andrew,  
; APPLICANT: Ellerman, Karen,  
; APPLICANT: Gangolli, Esha A.,  
; APPLICANT: Gorman, Linda,  
; APPLICANT: Gerlach, Valerie,  
; APPLICANT: Ji, Weizhen,  
; APPLICANT: Kekuda, Rameah,  
; APPLICANT: Khramtsov, Nikolai,  
; APPLICANT: Li, Li,  
; APPLICANT: Malyankar, Uriel M.,  
; APPLICANT: MacDougall, John R.,  
; APPLICANT: Mezes, Peter S.,  
; APPLICANT: Miller, Charles E.,  
; APPLICANT: Millet, Isabelle,  
; APPLICANT: Ooi, Chean Eng,  
; APPLICANT: Ort, Tatiana,  
; APPLICANT: Padigaru, Muralidhara,  
; APPLICANT: Patturajan, Meera,  
; APPLICANT: Rastelli, Luca,  
; APPLICANT: Rieger, Daniel K.,  
; APPLICANT: Rothenberg, Mark E.,  
; APPLICANT: Shenoy, Suresh G.,  
; APPLICANT: Spaderna, Steven K.,  
; APPLICANT: Spytek, Kimberley A.,  
; APPLICANT: Taupier, Jr., Raymond J.,  
; APPLICANT: Vernet, Corine A.M.,  
; APPLICANT: Zerhusen, Bryan D.,  
; APPLICANT: Zhong, Mei  
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-480C  
; CURRENT APPLICATION NUMBER: US/10/287,226  
; CURRENT FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/334,421  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,392  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/360,148  
; PRIOR FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: 60/364,000  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/404,821  
; PRIOR FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: 60/334,526  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,409  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/364,227  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/334,027  
; PRIOR FILING DATE: 2001-11-28  
; PRIOR APPLICATION NUMBER: 60/331,641  
; PRIOR FILING DATE: 2001-11-20

; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 673  
; SOFTWARE: CuroSeqList version 0.1  
; SEQ ID NO 345  
; LENGTH: 1096  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (344)..(1006)  
US-10-287-226-345

Query Match 58.8%; Score 921.4; DB 19; Length 1096;  
Best Local Similarity 87.1%; Pred. No. 9.2e-233;  
Matches 1090; Conservative 0; Mismatches 6; Indels 155; Gaps 1;  
Qy 36 GCAACCGGGCAGCGCGTGCCTGAGGAGTCTTGGAGGCTACAGAGCTGCGCGGCTG 95  
Db 1 GCAACCGGGCAGCGCGTGCCTGAGGAGTCTTGGAGGCTACAGAGCTGCGCGGCTG 60  
Qy 96 GCACACGAGCGCTCGGCACCTAACCGAGTGTTCGCGGGGCTGTGAGGGGAGGCGCGCG 155  
Db 61 GCACACGAGCGCTCGGCACCTAACCGAGTGTTCGCGGGGCTGTGAGGGGAGGCGCGCG 120  
Qy 156 GCGCCATTGCTGCGCGTGGGAGCGCGCGCTCTCAGCCCGCGCTCGGCTGCTCTCTC 215  
Db 121 GCGCCATTGCTGCGCGTGGGAGCGCGCGCTCTCAGCCCGCGCTCGGCTGCTCTCTC 180  
Qy 216 CTCGGGCTGGAGGGCGCGTATCTCGGGGCGGTGCGCAGCCCGCGCGCGGCTGCTGATA 275  
Db 181 CTCGGGCTGGAGGGCGCGTATCTCGGGGCGGTGCGCAGCCCGCGCGCGGCTGCGAGAT 240  
Qy 276 CRAAGGCGCTCGCGCGTCTCCCGCACCTCATTTCCATCGCCCTTCCCGGGCAGCGCGGCA 335  
Db 241 CAAGGCGCTCGCGCGTCTCCCGCACCTCATTTCCATCGCCCTTCCCGGGCAGCGCGGCA 300  
Qy 336 GAGACCATGTTTGACAAAGACGCGCGTTCGCTGCGCGCTCGATGTGCTCTGCGTGTG 395  
Db 301 GAGACCATGTTTGACAAAGACGCGCGTTCGCTGCGCGCTCGATGTGCTCTGCGTGTG 360  
Qy 396 CTGGCTTCCATGCTATGCGTGTTCCTTAAATTTGGGCGCAATATATCCATTCAGAGAGGC 455  
Db 361 CTGG----- 364  
Qy 456 TTTTCTGTAAAGACAAACAGCATCAACTATCCGTACCATGACAGTACCGCGCGATCCACT 515  
Db 365 ----- 364  
Qy 516 GTCCTCATCTAGTGGGGGTTGGCTTTCCTCTATTTATTTCTTGGAGAAACCGCTG 575  
Db 365 -----ATTATTTCTTGGAGAAACCGCTG 385  
Qy 576 TCTGTTTACTGTAAACCTTTTGCACTCAAAATTCCTTTATCAGTAAATTAATACATAGCCACT 635  
Db 386 TCTGTTTACTGTAAACCTTTTGCACTCAAAATTCCTTTATCAGGAAATAACTACATAGCCACT 445  
Qy 636 ATTTACAAAGCCATTGCAACCTTTTATTTGGTGCAGCTGCTAGTCCCTGACTGAC 695  
Db 446 ATTTACAAAGCCATTGCAACCTTTTATTTGGTGCAGCTGCTAGTCCCTGACTGAC 505  
Qy 696 ATTGCCAAGTATTCAATAGGCAGACTGCGCGCTCACTTTCTTGGATGTTTGTGATCCAGAT 755  
Db 506 ATTGCCAAGTATTCAATAGGCAGACTGCGCGCTCACTTTCTTGGATGTTTGTGATCCAGAT 565  
Qy 756 TGGTCAAAATCAACTGCGAGCGATGTTTCAATTTGAATATACATATGTGAGGGAATGCA 815  
Db 566 TGGTCAAAATCAACTGCGAGCGATGTTTCAATTTGAATATACATATGTGAGGGAATGCA 625  
Qy 816 GAAAGAGTTAAGGAGGCGAGGTTGCTCTTCTATTTCAGGCGCACTCTTCGTTTTCATGTAC 875  
Db 626 GAAAGAGTTAAGGAGGCGAGGTTGCTCTTCTATTTCAGGCGCACTCTTCGTTTTCATGTAC 685  
Qy 876 TGCATGCTGTTTGTGGCACTTTTATCTTCAAGCCAGGATGAAAGGAGACTGGGCAAGACTC 935

Db 686 TGCATGCTGTTGTGGCACTTTAICTTCAAGCAGGATGAAGGAGACTGGGCAAGACTC 745  
QY 936 TTACGCCCCACACTGCAATTTGGTCTGTGTGGCGTATCCATTTATGTGGGCCCTTTCTCGA 995  
Db 746 TTACGCCCCACACTGCAATTTGGTCTGTGTGGCGTATCCATTTATGTGGGCCCTTTCTCGA 805  
QY 996 GTTCTCTGATTTAAACACCACTGGAGCGATGTGTGACTGGAATTCATTGAGGAGCTCTG 1055  
Db 806 GTTCTCTGATTTAAACACCACTGGAGCGATGTGTGACTGGAATTCATTGAGGAGCTCTG 865  
QY 1056 GTTCAATATTAAGTCTGTATATGTATCGGATTTCTTCAAGAAAGAACTTCTTTTAA 1115  
Db 866 GTTCAATATTAAGTCTGTATATGTATCGGATTTCTTCAAGAAAGAACTTCTTTTAA 925  
QY 1116 GAAAGAAAAGAGGAGACTCTCATACAACCTCTGCATGAACACAACTGGGAATCAC 1175  
Db 926 GAAAGAAAAGAGGAGACTCTCATACAACCTCTGCATGAACACAACTGGGAATCAC 985  
QY 1176 TATCCAGGCAATCACAGCCCTTGAAGGCAAGCAGGCGTCCAGGTGAAGTGGCCCTGTTT 1235  
Db 986 TATCCAGGCAATCACAGCCCTTGAAGGCAAGCAGGCGTCCAGGTGAAGTGGCCCTGTTT 1045  
QY 1236 TCTAAAGGAAATGATTGCCACAAGGCAAGGATGCATCTTTCTTCCTGG 1286  
Db 1046 TCTAAAGGAAATGATTGCCACAAGGCAAGGATGCATCTTTCTTCCTGG 1096

## RESULT 5

US-10-647-426-21  
; Sequence 21, Application US/10647426  
; Publication No. US20040110197A1  
; GENERAL INFORMATION:  
; APPLICANT: Skinner, Michael K.  
; APPLICANT: Patton, Jodi L.  
; TITLE OF INVENTION: A METHOD OF DETERMINING TUMOR CHARACTERISTICS BY  
; TITLE OF INVENTION: DETERMINING ABNORMAL COPY NUMBER OR EXPRESSION LEVEL OF  
; TITLE OF INVENTION: LIPID-ASSOCIATED GENES  
; FILE REFERENCE: PATRICK EAGLEMAN: EMBOL-X 252/124  
; CURRENT APPLICATION NUMBER: US/10/647,426  
; PRIOR FILING DATE: 2003-08-26  
; PRIOR APPLICATION NUMBER: US/09/676,052  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 21  
; LENGTH: 1043  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: gene  
; LOCATION: (1)..(1043)  
; OTHER INFORMATION: The sequence of the cDNA coding for Phosphatidic  
; OTHER INFORMATION: Acid Phosphatase type 2a  
US-10-647-426-21

Query Match 56.0%; Score 876.2; DB 20; Length 1043;  
Best Local Similarity 90.9%; Pred. No. 8.2e-221;  
Matches 948; Conservative 0; Mismatches 83; Indels 12; Gaps 1;  
QY 256 CCGCGCCCGGCTCGATATCAAGGGCCTCGGCGCTCGCCGACCTCATTTCCATCGCC 315  
Db 1 CCGCGCCCGGCTCGAGAAATCAAGGGCCTCGGCGCGCTCGCCGACCTCAGTCCATCGCC 60  
QY 316 CTTGCGGCGGAGCCCGGGCAGAGACCATGTTTGACAAGACGCGGCTCGCGTACGTGGCC 375  
Db 61 CTTGCGGCGGAGCCCGGGCAGAGACCATGTTTGACAAGACGCGGCTCGCGTACGTGGCC 120  
QY 376 TCGATGTCTCTGCGTGTGCTGGCTTCCATGCTATGGCTGTCTTAAATTTGGGCAAA 435  
Db 121 TCGATGTCTCTGCGTGTGCTGGCTTCCATGCTATGGCTGTCTTAAATTTGGGCAAA 180  
QY 436 TATAT-----CCATTTTCAGAGAGGCTTTTCTGTAAAGACAACAGCATCAACT 483

Db 181 TTACTTCAAGGCATACCCCTTTCCAAAGGAGATATCTGTAAATGATGAGTCCATCAAGT 240  
QY 484 ATCCGTAACCATGACAGTACCGCGCATCCACTGTCTCATCTAGTGGGGTGGCTTGC 543  
Db 241 ACCCTTCAAAAGAAGACACCATACCTTATGCGTTATAGGTGGAATTAATCATTTCCATTCA 300  
QY 544 CCGTTTCTCTATATATCTTTGGAGAAACCTCTGTCTGTGTATCTGTAACTGTAACTTTTAT 603  
Db 301 GTATTATCGTTATATCTTTGGAGAAACCTCTGTCTGTGTAACTTTTACCTTTTGCACCTAA 360  
QY 604 ATTCCTTTTATCAGTAACTACATAGCCACTATTTACAAAGCCATTTGAACTTTTAT 663  
Db 361 ATTCCTTTTATCAGGAACTACATAGCCACTATTTACAAAGCCATTTGAACTTTTAT 420  
QY 664 TTGGTGCAGCTCTAGTCCCTGACCTGACATTCGCAAGTATTTCAATAGGCAGACTGC 723  
Db 421 TTGGTGCAGCTCTAGTCCCTGACCTGACATTCGCAAGTATTTCAATAGGCAGACTGC 480  
QY 724 GGCCTCACTCTTTGGATGTTTGTGATCCAGATTTGTCATGTTGTCATGTTGTCAGGATGTT 783  
Db 481 GGCCTCACTCTTTGGATGTTTGTGATCCAGATTTGTCATGTTGTCATGTTGTCAGGATGTT 540  
QY 784 ACATTTGAATACATATCTCGAGGGAATGCAAGAGAGTTAAGGAAGGAGGTTGTCCT 843  
Db 541 ACATTTGAATACATATCTCGAGGGAATGCAAGAGAGTTAAGGAAGGAGGTTGTCCT 600  
QY 844 TCTATTGAGGCCACTCTTCTGTTTCCATGCTACTGCTGTTTGTGGCACTTTATCTTC 903  
Db 601 TCTATTGAGGCCACTCTTCTGTTTCCATGCTACTGCTGTTTGTGGCACTTTATCTTC 660  
QY 904 AAGCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCACTGCAATTTGTCCTT 963  
Db 661 AAGCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCACTGCAATTTGTCCTT 720  
QY 964 TTGCGGTATCCATTTATGTGGGCCCTTCTCGAGTTTCTGATTTATAACACCACTGGAGCG 1023  
Db 721 TTGCGGTATCCATTTATGTGGGCCCTTCTCGAGTTTCTGATTTATAACACCACTGGAGCG 780  
QY 1024 ATGTGTTGACTGACTGACTTTCAGGAGCTCTGTTTGCATATTTAGTGTCTATATGAT 1083  
Db 781 ATGTGTTGACTGACTGACTTTCAGGAGCTCTGTTTGCATATTTAGTGTCTATATGAT 840  
QY 1084 CCGATTTCTTCAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGAGGACTCTCATACAA 1143  
Db 841 CCGATTTCTTCAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGAGGACTCTCATACAA 900  
QY 1144 CTCTCATGAAACACCAACTGCGGAATCACTATCCGAGCAATCACAGCTTGAAGG 1203  
Db 901 CTCTCATGAAACACCAACTGCGGAATCACTATCCGAGCAATCACAGCTTGAAGG 960  
QY 1204 CAGCAGGTCGCCAGGTGAAGCTGGCTGTTTCTTAAAGAAATGATTTGCCACAGGCA 1263  
Db 961 CAGCAGGTCGCCAGGTGAAGCTGGCTGTTTCTTAAAGAAATGATTTGCCACAGGCA 1020  
QY 1264 AGAGATGCACTTTCTTCCTGG 1286  
Db 1021 AGAGATGCACTTTCTTCCTGG 1043

## RESULT 6

US-10-643-795A-57  
; Sequence 57, Application US/10643795A  
; Publication No. US20040241703A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN PRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU

APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; FILE REFERENCE: P5026R1-US  
; CURRENT APPLICATION NUMBER: US/10/643,795A  
; CURRENT FILING DATE: 2003-08-19  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-08-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/413,192  
; PRIOR FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: US 60/419,008  
; PRIOR FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: US 60/426,847  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US 60/484,959  
; PRIOR FILING DATE: 2003-07-02  
; NUMBER OF SEQ ID NOS: 158  
; SEQ ID NO 57  
; LENGTH: 1043  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-643-795A-57

Query Match 56.0%; Score 876.2; DB 21; Length 1043;  
Best Local Similarity 90.9%; Pred. No. 8.2e-221;  
Matches 948; Conservative 0; Mismatches 83; Indels 12; Gaps 1;

QY 256 CCGGGCCGGCTCGATATCAAGGGCTCGCGCTCGTCCGACCTCATTCATCGCC 315  
Db 1 CCGGGCCGGCTCGAGATCAAGGGCTCGCGCGCTCGCGAGCTCAGTCCATCGCC 60

QY 316 CTTGCCGGCAGCCGGGAGACCATGTTTCAAGAGCGCGCTCGCTAGTGGCCC 375  
Db 61 CTTGCCGGCAGCCGGGAGACCATGTTTCAAGAGCGCGCTCGCTAGTGGCCC 120

QY 376 TCGATGCTCTCGGTGCTGGCTTCCATGCTTATGGCTGTCTTAAATTTGGGCCAA 435  
Db 121 TCGATGCTCTCGGTGCTGGCTTCCATGCTTATGGCTGTCTTAAATTTGGGCCA 180

QY 436 TATAT-----CCATTTACAGAGGCTTTTCTGTAAAGCAACAGCATCAACT 483  
Db 181 TTACTTCAAGGCATACCCCTTCCACGAGGAGTATCTGTATGATGATGATCAAGT 240

QY 484 ATCGGTACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 543  
Db 241 ACCCTTACAAAGAGAGACACCATACCTTATGCGTTATAGGTGGAATATCAATCCA 300

QY 544 CCGTTTCTCTATTATTCTTGGAGAAACCTGTCTGTCTGTCTGTCTGTCTGTCTGT 603  
Db 301 GTATTATCGTTATTATCTTGGAGAAACCTGTCTGTCTGTCTGTCTGTCTGTCTGT 360

QY 604 ATTCCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 663  
Db 361 ATTCCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 420

QY 664 TTGGTCAGCTGCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 723  
Db 421 TTGGTCAGCTGCTAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480

QY 724 GGCTCACTTCTTGGATGTTTGTGATCCAGATTTGTTCAAAATCAACTGCGAGTGGTT 783  
Db 481 GGCTCACTTCTTGGATGTTTGTGATCCAGATTTGTTCAAAATCAACTGCGAGTGGTT 540

QY 784 ACATGAATACTACATATGTCGAGGAATGCAGAAAGAGTTAAGGAAGGAGTTCCT 843  
Db 541 ACATGAATACTACATATGTCGAGGAATGCAGAAAGAGTTAAGGAAGGAGTTCCT 600

QY 844 TCTATTACGCCCACTCTTCTGTTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 903  
Db 601 TCTATTACGCCCACTCTTCTGTTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660

QY 904 AAGCCAGGATGAAGGAGAGCTGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 963  
Db 661 AAGCCAGGATGAAGGAGAGCTGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 720

QY 964 TTGCCGTATCCATTTATGTTGGGCTTTCTCGAGTCTTCTGATTTAAACACCACTGGAGCG 1023  
Db 721 TTGCCGTATCCATTTATGTTGGGCTTTCTCGAGTCTTCTGATTTAAACACCACTGGAGCG 780

QY 1024 ATGTGTTGACTGAGCTCATTACAGGAGCTCTGGTTCGAATATAGTTCGTATATGAT 1083  
Db 781 ATGTGTTGACTGAGCTCATTACAGGAGCTCTGGTTCGAATATAGTTCGTATATGAT 840

QY 1084 CGGATTTCTTCAAGAAAGAACTTTCTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 1143  
Db 841 CGGATTTCTTCAAGAAAGAACTTTCTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 900

QY 1144 CTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATCAACAGCTTGAAGG 1203  
Db 901 CTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATCAACAGCTTGAAGG 960

QY 1204 CAGCAGGTGCCAGGTGAAGCTGGCTGCTTTCTTAAAGGAAATATGTTGCCCAAGGCA 1263  
Db 961 CAGCAGGTGCCAGGTGAAGCTGGCTGCTTTCTTAAAGGAAATATGTTGCCCAAGGCA 1020

QY 1264 AGAGGATGCATCTTTCTTCTCTGG 1286  
Db 1021 AGAGGATGCATCTTTCTTCTCTGG 1043

RESULT 7  
US-10-948-518-57  
; Sequence 57, Application US/10948518  
; Publication No. US2005006492A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN FRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU  
; APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF TUMOR  
; FILE REFERENCE: P5026R1-US  
; CURRENT APPLICATION NUMBER: US/10/948,518  
; CURRENT FILING DATE: 2004-09-22  
; PRIOR APPLICATION NUMBER: US/10/643,795  
; PRIOR FILING DATE: 2003-08-19  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-08-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/413,192  
; PRIOR FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: US 60/419,008  
; PRIOR FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: US 60/426,847  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US 60/484,959  
; PRIOR FILING DATE: 2003-07-02  
; NUMBER OF SEQ ID NOS: 158  
; SEQ ID NO 57  
; LENGTH: 1043  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-10-948-518-57

Query Match 56.0%; Score 876.2; DB 22; Length 1043;  
Best Local Similarity 90.9%; Pred. No. 8.2e-221;  
Matches 948; Conservative 0; Mismatches 83; Indels 12; Gaps 1;

QY 256 CCGGCGCGGCTCGATATCAAGGGCTCGGCGCTCGTCCCGACCTCATTCATCGCC 315  
Db |||||  
1 CCGGCGCGGCTCGAGAAATCAAGGGCTCGGCGCGCTCGCCAGCTCAGTCCATCGCC 60  
QY 316 CTTGCCGGGAGCCCGGCGAGACCATGTTTCACAAGAGCGCGCTCGCTAGCTGGCCC 375  
Db |||||  
61 CTTGCCGGGAGCCCGGCGAGACCATGTTTCACAAGAGCGCGCTCGCTAGCTGGCCC 120  
QY 376 TCGATGTCTCGCTGTGCTGGCTGCCATGCTATGCTGTCTTCTTAAATTTGGGCCAA 435  
Db |||||  
121 TCGATGTCTCGCTGTGCTGGCTGCCATGCTATGCTGTCTTCTTAAATTTGGGCCAA 180  
QY 436 TATAT-----CCATTTACAGAGGCTTTTCTGTAAAGACAACAGCATCAACT 483  
Db |||||  
181 TTACTTCAAGGCATACCCCTTCCAAAGAGAGTATCTGTATATGATGATCCATCAAGT 240  
QY 484 ATCCGTACCATGACAGTACCGCGCATCCACTCTCTCATCTCCTAGTGGGGTGGCTGC 543  
Db |||||  
241 ACCCTTACAAGAGACACCATACCTTATGCGTTATAGGTGGAATAATCATTTCCATTCA 300  
QY 544 CGGTTTCTCTATTATCTTGGAGAAACCTGTCTGTCTTACTGTAAACCTTTTGCACTCA 603  
Db |||||  
301 GTATTATCGTTATTATCTTGGAGAAACCTGTCTGTCTTACTGTAAACCTTTTGCACTCA 360  
QY 604 ATTCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 663  
Db |||||  
361 ATTCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 420  
QY 664 TTGGTGACGTCTAGTACGTCCCTGACTGACATTCAGTCCCAAGTATTCAATAGGCAGACTGC 723  
Db |||||  
421 TTGGTGACGTCTAGTACGTCCCTGACTGACATTCAGTCCCAAGTATTCAATAGGCAGACTGC 480  
QY 724 GGCCTCAGTCTTGGATGTTGTGATCCAGATTTGGTCAAAAATCAACTGCAGCGATGGTT 783  
Db |||||  
481 GGCCTCAGTCTTGGATGTTGTGATCCAGATTTGGTCAAAAATCAACTGCAGCGATGGTT 540  
QY 784 ACATTTGAATACACTACATATGTCGAGGAATGCAGAAAGTAAAGAGCAGGTTGTCT 843  
Db |||||  
541 ACATTTGAATACACTACATATGTCGAGGAATGCAGAAAGTAAAGAGCAGGTTGTCT 600  
QY 844 TCTATTTCAGGCCACTCTTCTGTTTCCATGTACTGCTGTCTTCTTAAAGCCATTTGGAACCTTTTAT 663  
Db |||||  
601 TCTATTTCAGGCCACTCTTCTGTTTCCATGTACTGCTGTCTTCTTAAAGCCATTTGGAACCTTTTAT 420  
QY 904 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 963  
Db |||||  
661 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 720  
QY 964 TTGCGGTATCCATTTATGTGGGCTTTCTCGAGTTTCTGATTTAAACCCACTGGAGCG 1023  
Db |||||  
721 TTGCGGTATCCATTTATGTGGGCTTTCTCGAGTTTCTGATTTAAACCCACTGGAGCG 780  
QY 1024 ATGTGTTGACTGACCTCATTCAGGAGCTCTGGTTCGAATATTAGTGTGTATATGTAT 1083  
Db |||||  
781 ATGTGTTGACTGACCTCATTCAGGAGCTCTGGTTCGAATATTAGTGTGTATATGTAT 840  
QY 1084 CGGATTTCTTCAAGAAAGAACTTTCTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 1143  
Db |||||  
841 CGGATTTCTTCAAGAAAGAACTTTCTTTAAAGAAAGAAAGAGGAGGACTCTCATACAA 900  
QY 1144 CTCTGATGAAACACCAACACTGGGAATCACTATCCGAGCAATCACAGCCTTGAAGG 1203  
Db |||||  
901 CTCTGATGAAACACCAACACTGGGAATCACTATCCGAGCAATCACAGCCTTGAAGG 960  
QY 1204 CAGCAGGCTGCCAGGTGAAGCTGGCTGTTTCTTAAAGGAAATGATTTGCCACAGGCA 1263  
Db |||||  
961 CAGCAGGCTGCCAGGTGAAGCTGGCTGTTTCTTAAAGGAAATGATTTGCCACAGGCA 1020  
QY 1264 AGAGGATGATCTTTCTCTCTGG 1286  
Db |||||  
1021 AGAGGATGATCTTTCTCTCTGG 1043

RESULT 8  
US-10-956-157-1105  
; Sequence 1105, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH  
; FILE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES  
; FILE REFERENCE: 031896-043000 (AM 101081)  
; CURRENT APPLICATION NUMBER: US/10/956,157  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 319805  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1105  
; LENGTH: 1043  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-956-157-1105

Query Match 56.0%; Score 876.2; DB 22; Length 1043;  
Best Local Similarity 90.9%; Pred. No. 8.2e-221;  
Matches 948; Conservative 0; Mismatches 83; Indels 12; Gaps 1;  
QY 256 CCGGCGCGGCTCGATATCAAGGGCTCGGCGCTCGTCCCGACCTCATTCATCGCC 315  
Db |||||  
1 CCGGCGCGGCTCGAGAAATCAAGGGCTCGGCGCGCTCGCCAGCTCAGTCCATCGCC 60  
QY 316 CTTGCCGGGAGCCCGGCGAGACCATGTTTGAAGAGCGCGCTCGCTAGCTGGCCC 375  
Db |||||  
61 CTTGCCGGGAGCCCGGCGAGACCATGTTTGAAGAGCGCGCTCGCTAGCTGGCCC 120  
QY 376 TCGATGTCTCGCTGTGCTGGCTTCCATGCTATGCTGTCTTCTTAAATTTGGGCCAA 435  
Db |||||  
121 TCGATGTCTCGCTGTGCTGGCTTCCATGCTATGCTGTCTTCTTAAATTTGGGCCAA 180  
QY 436 TATAT-----CCATTTACAGAGGCTTTTCTGTAAAGACAACAGCATCAACT 483  
Db |||||  
181 TTACTTCAAGGCATACCCCTTCCAAAGAGAGTATCTGTATATGATGATCCATCAAGT 240  
QY 484 ATCCGTACCATGACAGTACCGCGCATCCACTCTCATCTCCTAGTGGGGTGGCTTGC 543  
Db |||||  
241 ACCCTTACAAGAGACACCATACCTTATGCGTTATAGGTGGAATAATCATTCATTC 300  
QY 544 CGGTTTCTCTATTATCTTGGAGAAACCTGTCTGTCTTACTGTAAACCTTTTGCACTCA 603  
Db |||||  
301 GTATTATCGTTATTATCTTGGAGAAACCTGTCTGTCTTACTGTAAACCTTTTGCACTCA 360  
QY 604 ATTCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 663  
Db |||||  
361 ATTCTTTATCAGTAATACTACATAGCCACTATTTACAAAGCCATTTGGAACCTTTTAT 420  
QY 664 TTGGTGACGTCTAGTACGTCCCTGACTGACATTCAGTCCCAAGTATTCAATAGGCAGACTGC 723  
Db |||||  
421 TTGGTGACGTCTAGTACGTCCCTGACTGACATTCAGTCCCAAGTATTCAATAGGCAGACTGC 480  
QY 724 GGCCTCAGTCTTGGATGTTGTGATCCAGATTTGGTCAAAAATCAACTGCAGCGATGGTT 783  
Db |||||  
481 GGCCTCAGTCTTGGATGTTGTGATCCAGATTTGGTCAAAAATCAACTGCAGCGATGGTT 540  
QY 784 ACATTTGAATACACTACATATGTCGAGGAATGCAGAAAGTAAAGAGCAGGTTGTCT 843  
Db |||||  
541 ACATTTGAATACACTACATATGTCGAGGAATGCAGAAAGTAAAGAGCAGGTTGTCT 600  
QY 844 TCTATTTCAGGCCACTCTTCTGTTTCCATGTACTGCTGTCTTCTTAAAGCCATTTGGAACCTTTTAT 903  
Db |||||  
601 TCTATTTCAGGCCACTCTTCTGTTTCCATGTACTGCTGTCTTCTTAAAGCCATTTGGAACCTTTTAT 660  
QY 904 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 963  
Db |||||  
661 AAGCCAGGATGAAGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTG 720  
QY 964 TTGCGGTATCCATTTATGTGGGCTTTCTCGAGTTTCTGATTTAAACCCACTGGAGCG 1023





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QY 634 CTATTTACAAAGCCATTGGAACTTTTATTTTGGTGCAGCTGCTAGTCAGTCCCTGACTG 693
Db 302 CCATTTACAAAGCCGTTGGAGCTTTTGTGTTGGAGCCTTCAGCCAGTCAGTCCCTGACTG 361
QY 694 ACATTTGCCAAGTATTCAATAGGACAGCTGCGGCTTCTTCTTGGATGTTTGTGATCCAG 753
Db 362 ACATTTGCTAAGTACTCTATAGGACAGCTGCGGCTTCTTCTGCTGCTGTCTGTAACCG 421
QY 754 ATTGGTCAAAATCAACTGCAGCGATGTTTACATTTGAATPACTATATATATGATGCGAGGAATG 813
Db 422 ACTGGTCAAAATCAACTGCAGCGATGCTACATTTGAGAACTTCGTATGTCAAGGGAATG 481
QY 814 CAGAAAGAGTTAAGGAAGCAGGTTGCTCTTCTATTTACGGCCACTCTTCTGTTTCCATGT 873
Db 482 AACAGAAGGTCAGGAAGGAGGTTGCTCTTCTTCTACTCGGGGCACTCTCATTTCTCTATGT 541
QY 874 ACTGCATGCTGTTTGTGGCACCTTTATCTTCAAGCCAGGATGAAGGAGACTGCGCAAGAC 933
Db 542 ACTGCATGCTGTTTGTGGCACCTTTATCTTCAAGCCAGGATGAAGGAGATTGGGCAAGAC 601
QY 934 TCTTACGCCCCACACTGCATTTGGTCTTTGTTGGCGTATCCATTTTATGTGGGCTTTCTC 993
Db 602 TCTTACGACCCATGCTACAGTTTGGCTTTGCTTTATCCATATATATGTTGGGCTGTCTC 661
QY 994 GAGTTTCTGATTTATAACACCACTGAGCGATGTTGACTGGACTCATTTCAAGGAGCTC 1053
Db 662 GAGTTTCTGATTTATAACACCACTGAGCGAGCTGTTTAAATGGCCCTCATTTCAAGGAGCTG 721
QY 1054 TGGTTGCAATATTAGTTGCTGTATGATGATCGGATTTCTTCAAGAAAGAACTTCTTTTA 1113
Db 722 TTGTGCAATATTAGTTGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 781
QY 1114 AAGAAAGAAAGAGGAGGAGCTCTCATACAACTCTGCATGAACACCAACCACTGGGAATC 1173
Db 782 AAGAAAGAAAGAGGAGGAGCTCTCATACAACTCTGCATGAACACCAACCACTGGGAATC 835
QY 1174 ACTATCCGAGCAATCAGGAGCTTTGAAAGG 1203
Db 836 GCTACGCAAGGAATCAGGAGCTTTGAAAGG 865

RESULT 11
US-10-152-319A-1795
; Sequence 1795, Application US/10152319A
; Publication No. US20040072160A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Higgs, Brandon
; APPLICANT: Castle, Arthur
; APPLICANT: Blashoff, Michael
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5089-US
; CURRENT APPLICATION NUMBER: US/10/152,319A
; CURRENT FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: US 60/292,335
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/297,523
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,925
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,810
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US 60/303,807
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US 60/303,808
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US 60/315,047
; PRIOR FILING DATE: 2001-08-28
; PRIOR APPLICATION NUMBER: US 60/324,928
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US 60/330,867
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; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: US 60/330,462
; PRIOR FILING DATE: 2001-10-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2221
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1795
; LENGTH: 871
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. NM_022538
US-10-152-319A-1795

Query Match 32.6%; Score 510; DB 19; Length 871;
Best Local Similarity 76.6%; Pred. No. 6.3e-124;
Matches 666; Conservative 0; Mismatches 195; Indels 9; Gaps 3;

QY 334 CAGAGACCATGTTTGCACAGAGCGGCTGCGGTAGTGGCCCTCGATGCTGCTCTCGGTGT 393
Db 5 CTGTGACCATGTTTCGACAAAGCGCGGCTGCGGTAGTGGCTCGATGATGTGATTTGCGTGT 64
QY 394 TGCTGGCTTCCATGCTATGCTGTTCTAAATTTGGGCAAAATATATATCCATTTCAAGAG 453
Db 65 TGCTGGCTGGATTTGCTTTTATATTTCTTCAAGGCATA--CCCCCTTCCAAAGAG 121
QY 454 GCTTTTCTGTAAGACAAACAGCATCAACTATCCGTACCATGACAGTACCGCCGATCCA 513
Db 122 GAGTGTCTGTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 181
QY 514 CTGTCTCATCTAGTGGGGTGGCTTGGCCCTTCTCTTATTTCTTGGAGAAACCC 573
Db 182 GCTTATAGTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 241
QY 574 TGCTGTTTACTGTAACTTTTGCACTCAAAATTTCTTTATCAGTAAATCACTACATAGCCA 633
Db 242 TGCTGTTTACTTTAATGTTCTTGTGATTTCAATTTCTTTGTGAGCAATCATTATATAGCCA 301
QY 634 CTATTTACAAAGCCATTGGAACTTTTATTTTGGTGCAGCTGCTAGTCAGTCCCTGACTG 693
Db 302 CCATTTACAAAGCCGTTGGAGCTTTTGTGTTGGAGCCTTCAGCCAGTCAGTCCCTGACTG 361
QY 694 ACATTTGCCAAGTATTCAATAGGACAGCTGCGGCTTCTCTTGGATGTTTCTGATCCAG 753
Db 362 ACATTTGCTAAGTACTCTATAGGACAGCTGCGGCTTCTCTTCTGCTGTCTGTAAACCCAG 421
QY 754 ATTGGTCAAAATCAACTGCAGCGATGTTTACATTTGAATPACTATATATATGTCGAGGAATG 813
Db 422 ACTGGTCAAAATCAACTGCAGCGATGCTACATTTGAGAACTTCGTATGTCAAGGGAATG 481
QY 814 CAGAAAGAGTTAAGGAAGCAGGTTGCTCTTCTATTTCAAGGCCACTCTTCTGTTTCCATGT 873
Db 482 AACAGAAGGTCAGGAAGGAGGTTGCTCTTCTTCTACTCGGGGCACTCTCATTTCTCTATGT 541
QY 874 ACTGCATGCTGTTTGTGGCACCTTTATCTTCAAGCCAGGATGAAGGAGACTGCGCAAGAC 933
Db 542 ACTGCATGCTGTTTGTGGCACCTTTATCTTCAAGCCAGGATGAAGGAGATTGGGCAAGAC 601
QY 934 TCTTACGCCCCACACTGCATTTGGTCTTTGTTGGCGTATCCATTTTATGTGGGCTTTCTC 993
Db 602 TCTTACGACCCATGCTACAGTTTGGCTTTGCTTTTATCCATATATATGTTGGGCTGTCTC 661
QY 994 GAGTTTCTGATTTATAACACCACTCGAGCGATGTTGACTGGACTCATTTCAAGGAGCTC 1053
Db 662 GAGTTTCTGATTTATAACACCACTCGAGCGAGCTGTTTAAATGGCCCTCATTTCAAGGAGCTG 721
QY 1054 TGGTTGCAATATTAGTTGCTGTATGATGATCGGATTTCTTCAAGAAAGAACTTCTTTTA 1113
Db 722 TTGTGCAATATTAGTTGCTGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 781
QY 1114 AAGAAAGAAAGAGGAGGAGCTCTCATACAACTCTGCATGAACACCAACCACTGGGAATC 1173
Db 782 AAGAAAGAAAGAGGAGGAGCTCTCATACAACTCTGCATGAACACCAACCACTGGGAATC 835
QY 1174 ACTATCCGAGCAATCAGGAGCTTTGAAAGG 1203
Db 836 GCTACGCAAGGAATCAGGAGCTTTGAAAGG 865
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QY 1174 ACTATCCGAGCAATCACCAGCCTTGAAGG 1203  
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Db 836 GCTACGCAAGGAATCAGAGCCTGAAGG 865

RESULT 12  
US-10-696-639-2825/c  
; Sequence 2825, Application US/10696639  
; Publication No. US20050037439A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corporation  
; APPLICANT: Bourner, Maureen J.  
; TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES INVOLVED IN CANCER, THE  
; FILE REFERENCE: POLYPEPTIDES ENCODED THEREBY, AND METHODS OF USING THE SAME  
; CURRENT APPLICATION NUMBER: US/10/696,639  
; PRIOR FILING DATE: 2003-10-29  
; PRIOR FILING DATE: 60/422,176  
; NUMBER OF SEQ ID NOS: 2002-10-29  
; SOFTWARE: PatentIn version 3.114  
; SEQ ID NO 2825  
; LENGTH: 486  
; TYPE: DNA  
; ORGANISM: homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (240)...(240)  
; OTHER INFORMATION: n:unknown  
US-10-696-639-2825

Query Match 30.9%; Score 483.4; DB 22; Length 486;  
Best Local Similarity 99.6%; Pred. No. 4.9e-117;  
Matches 484; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 949 TGCAATTTGGTCTTGTGGCGTATCCATTTATGTGGCCCTTTCTCGAGTTCTCGATTATA 1008  
| | | | | | | | | | | | | | | | | | | |  
Db 486 TGCAATTTGGTCTTGTGGCGTATCCATTTATGTGGCCCTTTCTCGAGTTCTCGATTATA 427  
QY 1009 AACACCACCTGGAGCGATGTTGACTGGACTATTCAGGAGCTCTGGTTGCNATATTAG 1068  
| | | | | | | | | | | | | | | | | | | |  
Db 426 AACACCACCTGGAGCGATGTTGACTGGACTATTCAGGAGCTCTGGTTGCNATATTAG 367  
QY 1069 TTGCTGTATATGTCGGATTTCTTCAAAGAAAGAACTTCTTTAAAGAAAGAAAGAGG 1128  
| | | | | | | | | | | | | | | | | | | |  
Db 366 TTGCTGTATATGTCGGATTTCTTCAAAGAAAGAACTTCTTTAAAGAAAGAAAGAGG 307  
QY 1129 AGGACTCTCATCAACTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATC 1188  
| | | | | | | | | | | | | | | | | | | |  
Db 306 AGGACTCTCATCAACTCTGCATGAACACCAACAACTGGGAATCACTATCCGAGCAATC 247  
QY 1189 ACCAGCCTTGAAGGAGCAGGGTGCAGGTGAAGCTGGCTGTTTCTAAAGGAAAT 1248  
| | | | | | | | | | | | | | | | | | | |  
Db 246 ACCAGCCTTGAAGGAGCAGGGTGCAGGTGAAGCTGGCTGTTTCTAAAGGAAAT 187  
QY 1249 GATTGCCAAGCAAGAGATGTCATCTTCTCTGCGTGTACAAGCCTTTAAAGACTTC 1308  
| | | | | | | | | | | | | | | | | | | |  
Db 186 GATTGCCAAGCAAGAGATGTCATCTTCTCTGCGTGTACAAGCCTTTAAAGACTTC 127  
QY 1309 TGCTGCTGATATGCCCTCTTGGATGCACACTTTGTGTACATAGTTACCTTTAACTCAGT 1368  
| | | | | | | | | | | | | | | | | | | |  
Db 126 TGCTGCTGATATGCCCTCTTGGATGCACACTTTGTGTACATAGTTACCTTTAACTCAGT 67  
QY 1369 GGTATCTAATAGCTCTAACTCATTTAAAAAACTCCAAAGCCTTCCACCAAAACAGTGCC 1428  
| | | | | | | | | | | | | | | | | | | |  
Db 66 GGTATCTAATAGCTCTAACTCATTTAAAAAACTCCAAAGCCTTCCACCAAAACAGTGCC 7  
QY 1429 CCACCT 1434  
| | | | |  
Db 6 CCACCT 1

RESULT 13

US-10-956-157-9858/c  
; Sequence 9858, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth

; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH  
; FILE REFERENCE: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES  
; CURRENT APPLICATION NUMBER: US/10/956,157  
; NUMBER OF SEQ ID NOS: 2004-10-04  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 9858  
; LENGTH: 1400  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-956-157-9858

Query Match 30.8%; Score 482.8; DB 22; Length 1400;  
Best Local Similarity 89.3%; Pred. No. 1.3e-116;  
Matches 520; Conservative 0; Mismatches 62; Indels 0; Gaps 0;  
QY 970 TATCCATTTATGTGGGCCCTTTCTCGAGTTTCTCGAGTTATAAACACCACTGGAGCGATGTGT 1029  
| | | | | | | | | | | | | | | | | | | |  
Db 1257 TATCCCTTTTGTATTATTTATCTTAGGATGCTGTTCATCACAACCTTTGTATGTAGTTTTT 1198  
QY 1030 TGACTGGACTCATTCAGGAGCTCTGGTTGCAATATTAGTTGTGTATATATGTATCGGATT 1089  
| | | | | | | | | | | | | | | | | | | |  
Db 1197 AACTTTGATCTAAATTTATACCATTAATAATTTTGCACCTAGGCTGTATATGTATCGGATT 1138  
QY 1090 TCTTCAAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAACCTCTGC 1149  
| | | | | | | | | | | | | | | | | | | |  
Db 1137 TCTTCAAAGAAAGAACTTCTTTTAAAGAAAGAAAGAGGAGGACTCTCATACAACCTCTGC 1078  
QY 1150 ATGAAACACCAACAACTGGGAATCACTATCCGAGCAATCAACAGCCTTGAAGGCGAGCAG 1209  
| | | | | | | | | | | | | | | | | | | |  
Db 1077 ATGAAACACCAACAACTGGGAATCACTATCCGAGCAATCAACAGCCTTGAAGGCGAGCAG 1018  
QY 1210 GGTGCCAGGTGAAGCTGGCCCTGTTTCTTAAAGGAAATGATTGCCAAGGCAAGGA 1269  
| | | | | | | | | | | | | | | | | | | |  
Db 1017 GGTGCCAGGTGAAGCTGGCCCTGTTTCTTAAAGGAAATGATTGCCAAGGCAAGGA 958  
QY 1270 TGCATCTTTCTTCTGCTGTACAAGCCTTTTAAAGACTTCTGCTGCTGATATGCTCTTGG 1329  
| | | | | | | | | | | | | | | | | | | |  
Db 957 TGCATCTTTCTTCTGCTGTACAAGCCTTTTAAAGACTTCTGCTGCTGATGCTCTTGG 898  
QY 1330 ATGCACACTTTGTGTGTACATAGTTTACCTTTAACTCAGTGGTTATCTAATAGCTCTAAAC 1389  
| | | | | | | | | | | | | | | | | | | |  
Db 897 ATGCACACTTTGTGTGTACATAGTTTACCTTTAACTCAGTGGTTATCTAATAGCTCTAAAC 838  
QY 1390 TCAATTAATAAACTCCAGCCTTCCACCAAAACAGTGGCCCACTGTGTATACATTTTATT 1449  
| | | | | | | | | | | | | | | | | | | |  
Db 837 TCAATTAATAAACTCCAGCCTTCCACCAAAACAGTGGCCCACTGTGTATACATTTTATT 778  
QY 1450 AAAAAATGTAATGCTTATGTATTAACATGTATTAATGCTTCTTCTATGAATGATGTTT 1509  
| | | | | | | | | | | | | | | | | | | |  
Db 777 AAAAAATGTAATGCTTATGTATTAACATGTATTAATGCTTCTTCTATGAATGATGTTT 718  
QY 1510 GATTTAAATATTAATACATATTAATAATGTTATGGGAGAACCAA 1551  
| | | | | | | | | | | | | | | | | | | |  
Db 717 GATTTAAATATTAATACATATTAATAATGTTATGGGAGAACCAA 676

RESULT 14

US-10-956-157-4623/c  
; Sequence 4623, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth

; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH

; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956,157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4623
; LENGTH: 3947
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-157-4623

Query Match		30.8%;	Score 482.8;	DB 22;	Length 3947;
Best Local Similarity		89.3%;	Pred. No. 2.5e-116;		
Matches	520;	Conservative	0;	Mismatches	62;
				Indels	0;
				Gaps	0;

  

QY	970	TATCCATTATGCTGGGCGCTTCTCGAGTTTCTGATTATATAACACCACTGGAGCGATGCT	1029
DB	3804	TATCCCTTTGTTATATTTATCTTAGGATGCTGTTGATCACAACCTTTGTATGATGTTT	3745
QY	1030	TGACTGGACTCATTCAGGAGCTCTGGTTGCAATATTAGTCTGTATATGATCGGATT	1089
DB	3744	AACTTGATCTAAATTATACCAATTAATAATTTTGCACTGAGCTGTATATGATCGGATT	3685
QY	1090	TCCTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGAGGAGGACTCTCATCAACTCTGC	1149
DB	3684	TCCTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGAGGAGGACTCTCATCAACTCTGC	3625
QY	1150	ATGAAACACCAACTCTGGGAATCACTATCCGAGCAATCACCAGCGCTTCAAGAGGCGAGCAG	1209
DB	3624	ATGAAACACCAACTCTGGGAATCACTATCCGAGCAATCACCAGCGCTTCAAGAGGCGAGCAG	3565
QY	1210	GGTGCCAGGTGAAGCTGGCCCTGTTTCTAAAGGAAATGATTGCCACAAGGCAAGAGGA	1269
DB	3564	GGTGCCAGGTGAAGCTGGCCCTGTTTCTAAAGGAAATGATTGCCACAAGGCAAGAGGA	3505
QY	1270	TGCATCTTTCTTCCTGGGTGACAGCCTTTAAAGACTTCTGCTGTATGATGCTCTTGG	1329
DB	3504	TGCATCTTTCTTCCTGGGTGACAGCCTTTAAAGACTTCTGCTGTATGATGCTCTTGG	3445
QY	1330	ATGCACACTTTGTGTACATAGTTTAACTTAACTCAGTGGTTTATCTAATAGCTCTAAAC	1389
DB	3444	ATGCACACTTTGTGTACATAGTTTAACTTAACTCAGTGGTTTATCTAATAGCTCTAAAC	3385
QY	1390	TCATTAAAAAACTCCAAGCCTTCCACCAAAACAGTGCCCCACCTGTATACATTTTATT	1449
DB	3384	TCATTAAAAAACTCCAAGCCTTCCACCAAAACAGTGCCCCACCTGTATACATTTTATT	3325
QY	1450	AAAAAATGTAATGCTTATGTATTAACATGATGTAATATGCTTCTTATGAATGATGTTT	1509
DB	3324	AAAAAATGTAATGCTTATGTATTAACATGATGTAATATGCTTCTTATGAATGATGTTT	3265
QY	1510	GATTTAAATATAATACATATTAAAAATGTATGGGAGAACCAAA	1551
DB	3264	GATTTAAATATAATACATATTAAAAATGTATGGGAGAACCAAA	3223

RESULT 15  
US-09-764-847-1965  
; Sequence 1965, Application US/09764847  
; Patent No. US20020132767A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC009  
; CURRENT APPLICATION NUMBER: US/09/764,847  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 2003  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1965  
; LENGTH: 26197  
; TYPE: DNA

; ORGANISM: Homo sapiens		
US-09-764-847-1965		
Query Match		30.8%;
Best Local Similarity		89.3%;
Matches	520;	Conservative
		0;
		Mismatches
		62;
		Indels
		0;
		Gaps
		0;

  

QY	970	TATCCATTATGCTGGGCGCTTCTCGAGTTTCTGATTATATAACACCACTGGAGCGATGCT	1029
DB	992	TATCCCTTTGTTATATTTATCTTAGGATGCTGTTGATCACAACCTTTGTATGATGTTT	1051
QY	1030	TGACTGGACTCATTCAGGAGCTCTGGTTGCAATATTAGTCTGTATATGATCGGATT	1089
DB	1052	AACTTGATCTAAATTATACCAATTAATAATTTTGCACTGAGCTGTATATGATCGGATT	1111
QY	1090	TCCTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGAGGAGGACTCTCATCAACTCTGC	1149
DB	1112	TCCTCAAGAAAGAACTCTTTTAAAGAAAGAAAGAGAGGAGGACTCTCATCAACTCTGC	1171
QY	1150	ATGAAACACCAACTCTGGGAATCACTATCCGAGCAATCACCAGCGCTTGAAGGCGAGCAG	1209
DB	1172	ATGAAACACCAACTCTGGGAATCACTATCCGAGCAATCACCAGCGCTTGAAGGCGAGCAG	1231
QY	1210	GGTGCCAGGTGAAGCTGGCCCTGTTTCTAAAGGAAATGATTGCCACAAGGCAAGAGGA	1269
DB	1232	GGTGCCAGGTGAAGCTGGCCCTGTTTCTAAAGGAAATGATTGCCACAAGGCAAGAGGA	1291
QY	1270	TGCATCTTTCTTCCTGGGTGACAGCCTTTAAAGACTTCTGCTGTATGATGCTCTTGG	1329
DB	1292	TGCATCTTTCTTCCTGGGTGACAGCCTTTAAAGACTTCTGCTGTATGATGCTCTTGG	1351
QY	1330	ATGCACACTTTGTGTACATAGTTTAACTTAACTCAGTGGTTTATCTAATAGCTCTAAAC	1389
DB	1352	ATGCACACTTTGTGTACATAGTTTAACTTAACTCAGTGGTTTATCTAATAGCTCTAAAC	1411
QY	1390	TCATTAAAAAACTCCAAGCCTTCCACCAAAACAGTGCCCCACCTGTATACATTTTATT	1449
DB	1412	TCATTAAAAAACTCCAAGCCTTCCACCAAAACAGTGCCCCACCTGTATACATTTTATT	1471
QY	1450	AAAAAATGTAATGCTTATGTATTAACATGATGTAATATGCTTCTTATGAATGATGTTT	1509
DB	1472	AAAAAATGTAATGCTTATGTATTAACATGATGTAATATGCTTCTTATGAATGATGTTT	1531
QY	1510	GATTTAAATATAATACATATTAAAAATGTATGGGAGAACCAAA	1551
DB	1532	GATTTAAATATAATACATATTAAAAATGTATGGGAGAACCAAA	1573

Search completed: November 12, 2005, 02:54:44  
Job time : 1376.71 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 11, 2005, 06:34:39 ; Search time 236.321 Seconds  
(without alignments)  
9430.425 Million cell updates/sec

Title: US-08-842-827-5  
Perfect score: 1362  
Sequence: 1 GCGCAGCTCTGCAAAAGTT.....TTTTAAAAA1362

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues  
Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
1: /cgn2\_6/ptodata/1/ina/5A COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCTUS COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	217	15.9	217	4	US-09-016-434-286
2	214.8	15.8	1315	3	US-08-992-035A-2
3	212.6	15.6	1303	4	US-09-566-921-117
4	115.2	8.5	434	4	US-09-702-705-1590
5	115.2	8.5	434	4	US-09-736-457-1590
6	115.2	8.5	434	4	US-09-614-124B-1590
7	115.2	8.5	434	4	US-09-671-325-1590
8	115.2	8.5	434	4	US-09-658-824-1590
9	113.6	8.3	472	4	US-09-702-705-273
10	113.6	8.3	472	4	US-09-736-457-273
11	113.6	8.3	472	4	US-08-614-124B-273
12	113.6	8.3	472	4	US-09-671-325-273
13	113.6	8.3	472	4	US-09-589-184-273
14	113.6	8.3	472	4	US-09-658-824-273
15	111	8.1	472	4	US-09-702-705-342
16	111	8.1	472	4	US-09-736-457-342
17	111	8.1	472	4	US-08-614-124B-342
18	111	8.1	472	4	US-09-671-325-342
19	111	8.1	472	4	US-09-589-184-342
20	111	8.1	472	4	US-09-658-824-342
21	82.4	6.0	266	4	US-09-016-434-322
22	82.4	6.0	1967	4	US-09-270-767-11662
23	63.2	4.6	204	4	US-09-270-767-8983
24	63.2	4.6	204	4	US-09-270-767-24265
25	53.2	3.9	7218	1	US-08-232-463-14
26	51.8	3.8	113	4	US-09-016-434-282
27	47.2	3.5	696	4	US-09-502-540-9100

C	28	47.2	3.5	10318	4	US-09-902-540-973	Sequence 973, App
	29	46.4	3.4	151	3	US-09-439-313-316	Sequence 316, App
	30	46.4	3.4	151	3	US-09-352-616A-316	Sequence 316, App
	31	46.4	3.4	151	3	US-09-232-149A-316	Sequence 316, App
	32	46.4	3.4	151	4	US-09-636-215-316	Sequence 316, App
	33	46.4	3.4	151	4	US-09-685-166A-316	Sequence 316, App
	34	46.4	3.4	151	4	US-09-688-489-316	Sequence 316, App
	35	46.4	3.4	151	4	US-09-679-426-316	Sequence 316, App
	36	46.4	3.4	151	4	US-09-759-143-316	Sequence 316, App
	37	46.4	3.4	151	4	US-09-651-236-316	Sequence 316, App
	38	46.4	3.4	1674	4	US-09-902-540-7458	Sequence 7458, App
	39	46.4	3.4	4387	4	US-09-902-540-721	Sequence 721, App
	40	45.2	3.3	253	4	US-09-016-434-301	Sequence 301, App
C	41	44.8	3.3	6453	1	US-08-306-691B-14	Sequence 14, Appl
C	42	44.8	3.3	6453	3	US-09-209-668-10	Sequence 10, Appl
C	43	44.8	3.3	6453	3	US-09-356-952-8	Sequence 8, Appl
	44	44.2	3.2	1304	4	US-09-902-540-2596	Sequence 2596, Ap
	45	44.2	3.2	16584	4	US-09-902-540-1119	Sequence 1119, Ap

ALIGNMENTS

RESULT 1  
US-09-016-434-286  
; Sequence 286, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 286:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 217 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PROSNOT14  
; CLONE: 1723675  
; US-09-016-434-286  
Query Match 15.9%; Score 217; DB 4; Length 217;  
Best Local Similarity 100.0%; Pred. No. 2.6e-50;

Matches 217; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 688 GCTTCCTCTTTGGCTGTGCCATCAGCAGTCTTTTCACAGACATTTGCCAAAGTGTCCATAG 747  
|||||  
Db 1 GCTTCCTCTTTGGCTGTGCCATCAGCAGTCTTTTCACAGACATTTGCCAAAGTGTCCATAG 60  
|||||

QY 748 GGGCCCTGGCTCTCACTTCTGAGTGTCTGCAACCTGATTTTCAGCCAGATCAACTGCT 807  
|||||  
Db 61 GGGCCCTGGCTCTCACTTCTGAGTGTCTGCAACCTGATTTTCAGCCAGATCAACTGCT 120  
|||||

QY 808 CTGAAGGCTACATTCAGAACTACAGATGACAGAGTGTATGACAGCAAAAGTCCAGAGCCA 867  
|||||  
Db 121 CTGAAGGCTACATTCAGAACTACAGATGACAGAGTGTATGACAGCAAAAGTCCAGAGCCA 180  
|||||

QY 868 GGAAGTCTCTTCTCTGGCCATGCCCTCTTCTCCAT 904  
|||||  
Db 181 GGAAGTCTCTTCTCTGGCCATGCCCTCTTCTCCAT 217  
|||||

## RESULT 2

US-08-992-035A-2  
; Sequence 2, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/992,035A  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1315 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT06  
; CLONE: 1719418  
; US-08-992-035A-2

Query Match 15.8%; Score 214.8; DB 3; Length 1315;

Best Local Similarity 57.0%; Pred. No. 2.9e-49;

Matches 434; Conservative 0; Mismatches 322; Indels 6; Gaps 2;

QY 371 GAGGAGGAGCGGAGCAAGCGGTGCTCATCTGCTCGACCTCTTCTGCTCTTTCAT 430  
|||||  
Db 93 GACCATGTTTGACAGACGCGGTGCGTACGTGGCCCTCGATGCTCTGCGTGTGCT 152  
|||||

QY 431 GCGGGGCTCCCTCTCTCATCGAGACAAGCACCATCAAGCCCTTACCACCGAGGTT 490  
|||||  
Db 153 GCGTCCATGCCTATGGCTGTTCTAAATTTGGCCAAATATATCCATTTTCAGAGAGGCTT 212  
|||||

QY 491 TTACTGCAATGATGAGAGCATCAAGTACCCTGAAACTGAGAGCAATTAATGACGC 550  
|||||  
Db 213 TTTCTGTAAGAGCAACAGCATCAACTATCC--GTACCATGACAGTACCGTCACATCCAC 269  
|||||

QY 551 TGTGCTCTGTGCGTGGGATCGTCAATGCCCCTCTCGCGATCATCACGGGGGAATTTCTA 610  
|||||  
Db 270 TGTCTCTATCTAGTGGGGTGGCTTGGCCATTTCTCTATATTTCTTGGAGAAACCTT 329  
|||||

QY 611 CCGGATCTATT--ACCTGAAGAAAGTCGCGGTGACAGATTTCAGAAACCCCTAGTGGCAGC 667  
|||||  
Db 330 GTCTGTTTACTGTAACTTTTGCACCTCAAAATTTCTTATCAGGAATAAATACATAGCCAC 389  
|||||

QY 668 ACTCTATAAGCAAGTGGGCTGCTCTTTGGCTGTGCCATCAGCCAGTCTTTTCACAGA 727  
|||||  
Db 390 TATTTACAAAGCCATTGGAAACCTTTTATTTGGTGCAGCTGCTAGTCACTCCCTGACTGA 449  
|||||

QY 728 CATTTGCCAAAGTGTCCATAGGGCGCTGCTCTCACTTTCTTTGAGTGTCTGCAACCCCTGA 787  
|||||  
Db 450 CATTTGCCAAAGTATTCAATAGGAGACTGCGGCTCACTTCTTGGATGTTTGGATCCAGA 509  
|||||

QY 788 TTTTCAGCCAGATCAACTGCTCTGAAGGCTACATTTCAGAACTACAGATGACAGAGGTGATGA 847  
|||||  
Db 510 TTTGGTCAAAAATCAACTGCAGCGATGTTTACATTTGAATACTACATATGTTCGAGGGAATGC 569  
|||||

QY 848 CAGCAAGTCCAGGAAGCAGCAAGTCTCTTCTCTGCGCCATGCTCTTCTCCATGTA 907  
|||||  
Db 570 AGAAAGAGTTAAGGAAGGAGGCTTGTCTTCTTATTTCAGGCCACTCTTCTGTTTCCATGTA 629  
|||||

QY 908 CACTATGCTGATTTTGGTCTATACCTGCAGGCCGCTTCACTTGGCGAGGAGCCGCT 967  
|||||  
Db 630 CTGCATGCTGTTTGGCACTTTTATTTCAAGCCAGGATGAAGGAGACTGGCGAAGACT 689  
|||||

QY 968 GTCGCGGCCCTCTCTGCACTTCACTTGTATCATGATGGCTTCTACACGGGACTGTCTCG 1027  
|||||  
Db 690 CTTAGCGCCACACTGCAATTTGGTCTTGTGCGGTATCCATTTATGTTGGGCTTTCTCG 749  
|||||

QY 1028 CATTATCAGACCACAGCACCATCCAGTGTATTTCTTGGCAGGATTTGCTCAAGGAGCCCT 1087  
|||||  
Db 750 AGTTTCTGATTATAAACACCACTGGAGCGATGTTGACTGGACTCAITTCAGGAGCTCT 809  
|||||

QY 1088 GGTGCGCTGCTGCATAGTTTCTTCTGCTGTCTGACCTCTTCAA 1129  
|||||  
Db 810 GGTTCGAATATTAGTTGCTGATATGATCGGATTTCTCAA 851  
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## RESULT 3

US-09-566-921-117  
; Sequence 117, Application US/09566921  
; Patent No. 6682888  
; GENERAL INFORMATION:  
; APPLICANT: Loring, Jeanne F.  
; APPLICANT: Tingley, Debra W.  
; APPLICANT: Edwards, Carla M.  
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE  
; FILE REFERENCE: PA-0024 US  
; CURRENT APPLICATION NUMBER: US/09/566,921  
; CURRENT FILING DATE: 2000-05-05  
; NUMBER OF SEQ ID NOS: 138  
; SOFTWARE: PERL program  
; SEQ ID NO 117  
; LENGTH: 1303  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. 6682888 202234.2  
; US-09-566-921-117







APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
APPLICANT: Fan, Liqun  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
FILE REFERENCE: 210121.478C11  
CURRENT APPLICATION NUMBER: US/09/658,824  
CURRENT FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 1788  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1590  
LENGTH: 434  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc.feature  
LOCATION: (1)...(434)  
OTHER INFORMATION: n = A,T,C or G  
US-09-658-824-1590

Query Match 8.5%; Score 115.2; DB 4; Length 434;  
Best Local Similarity 61.8%; Pred. No. 7.2e-22;  
Matches 183; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

QY 834 TGCAGAGGTGATGACAGCAAGTCCAGGAAGCCAGGAGGAGTCTTCTCTCTGGCCATGCC 893  
DB 13 TGCAGGGGAAACCTGCTGATGTCACCGAGGCCAGGTGTCTTCTACTCGGACACTCT 72  
QY 894 TCCTTCTCCATGTACACTATGCTGTATTTGGTGTATACCTCGAGGCCCTTCACTTTG 953  
DB 73 TCCTTTGGGATGACTGCTGATGTTCTTGGTGTGTATGTCAGGCACGACTCTGTGG 132  
QY 954 CGAGGAGCCCGCTGCTCGGCCCTCTCGAGTTACCTTGCATGATGAGTGGCTTCTAC 1013  
DB 133 AAGTGGGCACGGCTGCTGGACCCACAGTCCAGTCTTCTGGTGGCTTTGGCCCTCTAC 192  
QY 1014 ACGGGACTGTCTCGCGTATCAGACCAAGCACCACATCCAGTGTATGTCGGCAGGATTT 1073  
DB 193 GTGGGCTACACCGCGTGTCTGGACCCACAGTCCAGTCTTCTGGTGGCTTTGGCCCTCTAC 192  
QY 1074 GCTCAAGGAGCCCTGGTGGCTGCTGCATAGTTTTCTTCTGTCTGACCTCTTCAA 1129  
DB 253 CTCAGGGGCACTGGTGGCTGCTGCATAGTTTTCTTCTGTCTGACCTCTTCAA 308

RESULT 9  
US-09-702-705-273  
Sequence 273, Application US/09702705  
Patent No. 6504010  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary  
APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
APPLICANT: Fan, Liqun  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.478C14  
CURRENT APPLICATION NUMBER: US/09/702,705  
CURRENT FILING DATE: 2000-10-30  
NUMBER OF SEQ ID NOS: 1833  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 273  
LENGTH: 472  
TYPE: DNA  
ORGANISM: Homo sapien  
US-09-702-705-273  
Query Match 8.3%; Score 113.6; DB 4; Length 472;

Best Local Similarity 61.5%; Pred. No. 2.1e-21;  
Matches 182; Conservative 0; Mismatches 114; Indels 0; Gaps 0;  
QY 834 TGCAGAGGTGATGACAGCAAGTCCAGGAAGCCAGGAGGAGTCTTCTCTCTGGCCATGCC 893  
DB 13 TGCAGGGGAAACCTGCTGATGTCACCGAGGCCAGGTGTCTTCTACTCGGACACTCT 72  
QY 894 TCCTTCTCCATGTACACTATGCTGTATTTGGTGTATACCTCGAGGCCCTTCACTTTG 953  
DB 73 TCCTTTGGGATGACTGCTGATGTTCTTGGCGCTGTATGTCAGGCACGACTCTGTGG 132  
QY 954 CGAGGAGCCCGCTGCTCGGCCCTCTCTCGAGTTACCTTGCATGATGAGTGGCTTCTAC 1013  
DB 133 AAGTGGGCACGGCTGCTGGACCCACAGTCCAGTCTTCTCTGGTGGCTTTGGCCCTCTAC 192  
QY 1014 ACGGGACTGTCTCGCGTATCAGACCAAGCACCACATCCAGTGTATGTCGGCAGGATTT 1073  
DB 193 GTGGGCTACACCGCGTGTCTGATTTACAAACACCACTGGAGCGATGCTCTTGTGGCCTC 252  
QY 1074 GCTCAAGGAGCCCTGGTGGCTGCTGCATAGTTTTCTTCTGTCTGACCTCTTCAA 1129  
DB 253 CTCAGGGGCACTGGTGGCTGCTGCATAGTTTTCTTCTGTCTGACCTCTTCAA 308

RESULT 10  
US-09-736-457-273  
Sequence 273, Application US/09736457  
Patent No. 6509448  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary  
APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
APPLICANT: Fan, Liqun  
APPLICANT: Wang, Aijun  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.478C15  
CURRENT APPLICATION NUMBER: US/09/736,457  
CURRENT FILING DATE: 2000-12-13  
NUMBER OF SEQ ID NOS: 1864  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 273  
LENGTH: 472  
TYPE: DNA  
ORGANISM: Homo sapien  
US-09-736-457-273

Query Match 8.3%; Score 113.6; DB 4; Length 472;  
Best Local Similarity 61.5%; Pred. No. 2.1e-21;  
Matches 182; Conservative 0; Mismatches 114; Indels 0; Gaps 0;  
QY 834 TGCAGAGGTGATGACAGCAAGTCCAGGAAGCCAGGAGGAGTCTTCTCTCTGGCCATGCC 893  
DB 13 TGCAGGGGAAACCTGCTGATGTCACCGAGGCCAGGTGTCTTCTACTCGGACACTCT 72  
QY 894 TCCTTCTCCATGTACACTATGCTGTATTTGGTGTATACCTCGAGGCCCTTCACTTTG 953  
DB 73 TCCTTTGGGATGACTGCTGATGTTCTTGGCGCTGTATGTCAGGCACGACTCTGTGG 132  
QY 954 CGAGGAGCCCGCTGCTCGGCCCTCTCTCGAGTTACCTTGCATGATGAGTGGCTTCTAC 1013  
DB 133 AAGTGGGCACGGCTGCTGGACCCACAGTCCAGTCTTCTCTGTGGCTTTGGCCCTCTAC 192  
QY 1014 ACGGGACTGTCTCGCGTATCAGACCAAGCACCACATCCAGTGTATGTCGGCAGGATTT 1073  
DB 193 GTGGGCTACACCGCGTGTCTGATTTACAAACACCACTGGAGCGATGCTCTTGTGGCCTC 252  
QY 1074 GCTCAAGGAGCCCTGGTGGCTGCTGCATAGTTTTCTTCTGTCTGACCTCTTCAA 1129

Db 253 CTGAGGGGCGACTGGTGGCTGCCTCACTGTCTGTACATCTCAGACTTCTTCAA.308

RESULT 11

US-09-614-124B-273

; Sequence 273, Application US/09614124B

; Patent No. 6630574

; GENERAL INFORMATION:

; APPLICANT: Wang, Tongtong

; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.

; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom

; APPLICANT: Carter, Darrick

; APPLICANT: Retter, Marc

; APPLICANT: Mannion, Jane

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER

; FILE REFERENCE: 210121.478C9

; CURRENT APPLICATION NUMBER: US/09/614,124B

; CURRENT FILING DATE: 2001-07-11

; NUMBER OF SEQ ID NOS: 1668

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 273

; LENGTH: 472

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-614-124B-273

Query Match	8.3%	Score 113.6;	DB 4;	Length 472;
Best Local Similarity	61.5%;	Pred. No. 2.1e-21;		
Matches 182;	Conservative 0;	Mismatches 114;	Indels 0;	Gaps 0;
Qy	834	TGCAGAGGTGATGACAGCAAAAGTCCAGGAAGCCAGGAAGTCCCTTCTCTCGGCCATGCC	893	
Db	13	TGCAGGGGAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTACTCGGGACACTCT	72	
Qy	894	TCCCTTCCATGTACACTATGCTCTATTGTGTGTATACCTGCAGGCCCGCTTCACATTGG	953	
Db	73	TCCCTTTGGGATGTACTGATGGTGTCTTGGCGGTGATGTGCAGGCCACGACTCTGTGTGG	132	
Qy	954	CGAGGAGCCCGCTGCTCCGGCCCTCTCTGCAGATTCACTTGTATCATGATGGCCTTCTTAC	1013	
Db	133	AAGTGGGCACGGCTGTGGACCCACAGTCAGTCTTCTCTGGTGGCCTTTGCCCTCTTAC	192	
Qy	1014	ACGGGACTGTCGCGTATCAGACCACCAAGCACCATCCCACTGATGTTTCTGGCAGGATTT	1073	
Db	193	GTGGGCTACACCCGGTGTCTGATTACAAACACCACCTGGAGCGATGCTCTTGTGGCGTC	252	
Qy	1074	GCTCAAGAGGCCCTGGTGGCCCTGTCGATAGTTTTCTTCGTGTCGTGACTCTTCAA	1129	
Db	253	CTGCAGGGGCACTGGTGGCTGCGCCCTCACTGCTGTCTACATCTCAGACTTCTTCAA	308	

RESULT 12  
US-09-671-325-273  
; Sequence 273, Application US/09671325  
; Patent No. 6667154  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retzer, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C12  
; CURRENT APPLICATION NUMBER: US/09/671.325

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; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 273
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-671-325-273

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Best Local Similarity 61.5%; Pred. No. 2.1e-21;
Matches 182; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

Qy      834  TGCAGAGGTCATGACAGCAAAGTCCAGGAAGCAGGAAGTCTTCTCTCTGGCCATGCC 893
Db      13   TGCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGTCTTTCTACTCGGACACTCT 72

Qy      894  TCCTTTCGATGTACACTATGCTGTATTTGGTGCGTATACCTGCAAGGCCCGCTTCAC TTGG 953
Db      73   TCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGAGGCACGACTCTGT TGG 132

Qy      954  CGAGGAGCCCGCTGCTCCGGCCCTCCTGCAGTTCACCTTGTATCATGATGGCCCTTCTAC 1013
Db      133  AAGTGGGCACGGCTGCTCGCAACCAACAGTCCAGTCTCTCTGTTGGCCTTTGGCCTCTAC 192

Qy      1014  ACGGACTGTCTCGGTATCAGACCACAGCAATCCGAGTATGTTCTGGCAGGATTT 1073
Db      193  GTGGGCTACACCCGCGTCTGTGATTAACAACAACACTGGAGCGATGTCCTGTGTGGCCTC 252

Qy      1074  GCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCGTGTGTGACCTCTTCAA 1129
Db      253  CTCAGGGGCACTGGTGGCTGCGCTCACCTGTCTGCTACATCTCAGACTTCTTCAA 308

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RESULT 13
US-09-589-184-273
; Sequence 273, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589, 184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 273
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-589-184-273

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	Query Match	8.3%;	Score 113.6;	DB 4;	Length 472;
	Best Local Similarity	61.5%;	Pred. No. 2.1e-21;		
	Matches 182;	Conservative	0;	Mismatches 114;	Indels 0; Gaps 0;
Qy	834	TGCAGAGGTGATGACACGCAAGTCCAGGAGGCCAGGAAAGTCCCTTCTCTCTGCGCCATGCC	893		
Db	13	TGCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGTCTTCTACTCGGACACTCT	72		
Qy	894	TCCTTCTCCATGTACACTATGCTGTATTTTCGTGCTATACCTGCAGGGCCCGCTTCACATTGG	953		
Db	73	TCCTTTGGGATGACTGCACTGGTGTCTTGGCGCTGTATGTGCAGGCACGACTCTGTHTGG	132		
Qy	954	CGAGGAGCCCGCCTGTGCTCGGCGCCCTCTGCAGTTTCACCTTGTATCATGTATGGCCCTTCTTAC	1013		

Db 133 AAGTGGGCGGCTGCTGGACCCACAGTCCAGTCTCTCTGGTGGCCCTTGGCCCTCTAC 192  
Qy 1014 ACGGGACTGCTCGGTATCAGACCAAGCAGCACCATCCAGTGTATGTTCTGGCAGGATTT 1073  
Db 193 GTGGGTACACCCGCGTGTGATTACAAACACCACTGGAGCGATGCTCTGTGTGGCCCTC 252  
Qy 1074 GCTCAAGGAGCCCTGGTGGCTGCTGCATAGTTTCTTCTGCTGCTACACTCTCTCAA 1129  
Db 253 CTGCAGGGGCACTGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTCAA 308

## RESULT 14

US-09-658-824-273

Sequence 273, Application US/09658824

Patent No. 6746846

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Lodes, Michael A.

APPLICANT: Fanger, Gary

APPLICANT: Vedvick, Tom

APPLICANT: Carter, Darrick

APPLICANT: Retter, Marc

APPLICANT: Mannion, Jane

APPLICANT: Pan, Liqun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

FILE OF INVENTION: DIAGNOSIS OF LUNG CANCER

FILE REFERENCE: 210121.478C11

CURRENT APPLICATION NUMBER: US/09/658,824

CURRENT FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 1788

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 273

LENGTH: 472

TYPE: DNA

ORGANISM: Homo sapien

US-09-658-824-273

Query Match

Best Local Similarity 8.3%; Score 113.6; DB 4; Length 472;

Matches 182; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

Qy 834 TGCAGAGGTGATGACAGCAAGTCCAGGAAGCCAGGAGCCAGTCTCTTCTGCGCCATGCC 893  
Db 13 TGCAGGGGAAACCTGCTGATGTCACCGAGGCCAGGTGTTCTTCTACTCGGACACTCT 72

Qy 894 TCCTTCTCCATGTACACTATGCTGTATTTGGTGCTATACCTGCGGCCGCTTCACTTGG 953  
Db 73 TCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCAGGCACGACTCTGTGG 132

Qy 954 CAGGAGCCGCGCTGCTCGGCCCTTCTGCAAGTTCACCTTGATCATGATGGCCTTCTAC 1013  
Db 133 AAGTGGGCACTGGTGGCCCTGCTGCGACCCACAGTCCAGTCTTCTGCTGGCCCTTAC 192

Qy 1014 ACGGGACTGCTCGCGTATCAGACCAAGCAGCACCATCCAGTGTATTTCTGCGAGGATTT 1073  
Db 193 GTGGGTACACCCGCGTGTGATTACAAACCACTGGAGCGATGCTCTGTGGCCCTC 252

Qy 1074 GCTCAAGGAGCCCTGGTGGCTGCTGCATAGTTTCTTCTGCTGCTGCTGCTGCTCAA 1129  
Db 253 CTGCAGGGGCACTGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTCAA 308

## RESULT 15

US-09-702-705-342

Sequence 342, Application US/09702705

Patent No. 6504010

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Lodes, Michael A.

APPLICANT: Fanger, Gary

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GenCore version 5.1.6  
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Perfect score: 1362  
Sequence: 1 GGCGCAGCTCTGCAAAAGTT.....TTTTAAAAA 1362

Scoring table: IDENTITY NUC  
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Searched: 9794790 seqs, 4134909567 residues

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1356.2	99.6	3162	14	US-10-044-090-607
3	1315.4	89.2	1445	20	US-10-717-597-65
4	1205	88.5	1444	9	US-09-880-107-3434
5	1193	87.6	1597	15	US-10-116-802-219

6	655	48.1	919	19	US-10-332-859-331	Sequence 331, App
7	612.2	44.9	804	19	US-10-332-859-217	Sequence 217, App
8	444	32.6	486	10	US-09-318-995-31572	Sequence 31572, A
9	441.8	32.4	538	9	US-09-878-178-2091	Sequence 2091, Ap
10	441.8	32.4	538	14	US-10-046-935-2091	Sequence 2091, Ap
11	441.8	32.4	538	15	US-10-146-502-2091	Sequence 2091, Ap
12	434.4	31.9	490	10	US-09-918-995-29157	Sequence 29157, A
13	430.6	31.6	437	10	US-09-918-995-29158	Sequence 29158, A
14	358.8	26.3	374	18	US-10-242-535A-3210	Sequence 3210, Ap
15	358.8	26.3	374	19	US-10-085-783A-3210	Sequence 3210, Ap
16	277	20.3	301	18	US-10-242-535A-32534	Sequence 32534, A
17	277	20.3	301	19	US-10-085-783A-32534	Sequence 32534, A
18	265.4	19.5	267	18	US-10-242-535A-28930	Sequence 28930, A
19	265.4	19.5	267	19	US-10-085-783A-28930	Sequence 28930, A
20	217	15.9	217	18	US-10-305-720-286	Sequence 286, App
21	212.6	15.6	1303	24	US-10-765-700-117	Sequence 117, App
22	211.8	15.6	871	18	US-10-191-803-154	Sequence 154, App
23	211.8	15.6	871	19	US-10-152-319A-1795	Sequence 1795, Ap
24	211.8	15.6	1703	21	US-10-357-930-25877	Sequence 25877, A
25	211	15.5	1269	20	US-10-647-426-25	Sequence 25, Appl
26	208.4	15.3	1566	24	US-10-764-425-61	Sequence 61, Appl
27	204	15.0	1301	24	US-10-491-467-101	Sequence 101, App
28	202.6	14.9	1043	20	US-10-647-426-21	Sequence 21, Appl
29	202.6	14.9	1043	21	US-10-643-795A-57	Sequence 57, Appl
30	202.6	14.9	1043	22	US-10-948-518-57	Sequence 57, Appl
31	202.6	14.9	1043	22	US-10-956-157-1105	Sequence 1105, Ap
32	198	14.5	283	20	US-10-430-201-331	Sequence 331, App
33	198	14.5	283	20	US-10-430-201-332	Sequence 332, App
34	197.4	14.5	231	18	US-10-242-535A-30815	Sequence 30815, A
35	197.4	14.5	231	19	US-10-085-783A-30815	Sequence 30815, A
36	185	13.6	1096	19	US-10-287-226-347	Sequence 347, App
37	185	13.6	1388	19	US-10-287-226-347	Sequence 347, App
38	164.2	12.1	600	22	US-10-956-157-6340	Sequence 6340, Ap
39	154.6	11.4	215	18	US-10-242-535A-1258	Sequence 1258, Ap
40	154.6	11.4	215	19	US-10-085-783A-1258	Sequence 1258, Ap
41	129.2	9.5	1584	26	US-11-097-143-2045	Sequence 2045, Ap
42	115.2	8.5	434	9	US-09-736-457-1590	Sequence 1590, Ap
43	115.2	8.5	434	9	US-09-802-941-1590	Sequence 1590, Ap
44	115.2	8.5	434	9	US-09-849-626-1590	Sequence 1590, Ap
45	115.2	8.5	434	15	US-10-017-754-1590	Sequence 1590, Ap

ALIGNMENTS

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; Sequence 20, Application US/10647426  
; Publication No. US20040110197A1  
; GENERAL INFORMATION:  
; APPLICANT: Skinner, Michael K.  
; APPLICANT: Patton, Jodi L.  
; TITLE OF INVENTION: A METHOD OF DETERMINING TUMOR CHARACTERISTICS BY  
; TITLE OF INVENTION: DETERMINING ABNORMAL COPY NUMBER OR EXPRESSION LEVEL OF  
; TITLE OF INVENTION: LIPID-ASSOCIATED GENES  
; FILE REFERENCE: PATRICK EAGLEMAN: EMBOL-X 252/124  
; CURRENT APPLICATION NUMBER: US/10/647,426  
; PRIOR FILING DATE: 2003-08-26  
; PRIOR APPLICATION NUMBER: US/09/676,052  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 1362  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: gene  
; LOCATION: (1)..(1362)  
; OTHER INFORMATION: The sequence of the cDNA coding for Phosphatidic  
; OTHER INFORMATION: Acid Phosphatase type 2B  
US-10-647-426-20

Query Match									
Best Local Similarity 100.0%; Score 1362; DB 20; Length 1362;									
Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	GGCGAGCTCTGCAAAAGTTTCTGCTCGGATCTGGCTCTCTTCCCTTGGACTTTAGAA	60						
Db	1	GGCGAGCTCTGCAAAAGTTTCTGCTCGGATCTGGCTCTCTTCCCTTGGACTTTAGAA	60						
QY	61	CGATTTAGGTTGACAGAGAAAGCAGAGCGCGCAGGAGGAGCAGAGAAACACACTTC	120						
Db	61	CGATTTAGGTTGACAGAGAAAGCAGAGCGCGCAGGAGGAGCAGAGAAACACACTTC	120						
QY	121	TGCAGTTGAGGAGCAGCGCCCGGTGCACTTAGCCGCGCGCGGAGCGCGGCGG	180						
Db	121	TGCAGTTGAGGAGCAGCGCCCGGTGCACTTAGCCGCGCGCGGAGCGCGGCGG	180						
QY	181	ACCGCCACTATCCGAGAGCTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	240						
Db	181	ACCGCCACTATCCGAGAGCTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	240						
QY	241	TGCTGTTGGCGGACGTTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	300						
Db	241	TGCTGTTGGCGGACGTTTCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	300						
QY	301	ACTAAGATACGACAAAGCGATCGTCCGAGAGCAAGAACGCGGAGCGCGGCGCTCA	360						
Db	301	ACTAAGATACGACAAAGCGATCGTCCGAGAGCAAGAACGCGGAGCGCGGCGCTCA	360						
QY	361	ACAACACCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	420						
Db	361	ACAACACCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	420						
QY	421	GCCTTTTACGCGGCGCTCCCTTCTCATCATCGAGACAGACACCATCAAGCCTTACC	480						
Db	421	GCCTTTTACGCGGCGCTCCCTTCTCATCATCGAGACAGACACCATCAAGCCTTACC	480						
QY	481	ACCGAGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAACCTGGTGAGACAA	540						
Db	481	ACCGAGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAACCTGGTGAGACAA	540						
QY	541	TAATGACGCTGTCTGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	600						
Db	541	TAATGACGCTGTCTGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	600						
QY	601	GGGAATTTACCGGATCTATTACCTGAAGAGTTCGCGGTGCGAGATTTCAGAACCCCTACG	660						
Db	601	GGGAATTTACCGGATCTATTACCTGAAGAGTTCGCGGTGCGAGATTTCAGAACCCCTACG	660						
QY	661	TGCGAGACTCTATAGCAAGTGGGTGCTTCTCTTTGGCTGTGCCATCAGCCAGTCTT	720						
Db	661	TGCGAGACTCTATAGCAAGTGGGTGCTTCTCTTTGGCTGTGCCATCAGCCAGTCTT	720						
QY	721	TCACAGACATTGCCAAGTGTCTATAGGCGCTGCGGTCTCTACTTTGAGTGTCTGCA	780						
Db	721	TCACAGACATTGCCAAGTGTCTATAGGCGCTGCGGTCTCTACTTTGAGTGTCTGCA	780						
QY	781	ACCCTGATTTACCGCAGATCAACTGTCTGAAGGCTACATTCAGAACTACAGATGCAGAG	840						
Db	781	ACCCTGATTTACCGCAGATCAACTGTCTGAAGGCTACATTCAGAACTACAGATGCAGAG	840						
QY	841	GTGATGACAGCAAGTCCAGGAAGCCAGGAAGTCTTCTTCTTGGCCATGCTCTTCT	900						
Db	841	GTGATGACAGCAAGTCCAGGAAGCCAGGAAGTCTTCTTCTTGGCCATGCTCTTCT	900						
QY	901	CCATGTACACTATGCTGTATTTGGTGTATCTGAGGCGCTTCACTTGGCGAGGAG	960						
Db	901	CCATGTACACTATGCTGTATTTGGTGTATCTGAGGCGCTTCACTTGGCGAGGAG	960						
QY	961	CCCGCTGTCTCCGGCCCTCTCCAGTTACCTTGATCATGATGGCTTCTACACGGGAC	1020						
Db	961	CCCGCTGTCTCCGGCCCTCTCCAGTTACCTTGATCATGATGGCTTCTACACGGGAC	1020						
QY	1021	TGCTCGCGTATCAGACCAACGACCATCCCACTGATGTTCTTGGCAGGATTTGCTCAAG	1080						

Db	1021	TGCTCGCGTATCAGACCAACAGCACCATCCAGTGATGTTCTGGCAGGATTTGCTCAAG	1080						
QY	1081	GAGCCCTGTGGCTGCTGCATAGTTTCTTCTGTCGTGACCTCTTCAAGACTTAACACGA	1140						
Db	1081	GAGCCCTGTGGCTGCTGCATAGTTTCTTCTGTCGTGACCTCTTCAAGACTTAACACGA	1140						
QY	1141	CGCTCTCCCTGCTGCTCCCTGCTATCCGGAAGGAAATCCTTTCACCTGTGGACATTATTG	1200						
Db	1141	CGCTCTCCCTGCTGCTCCCTGCTATCCGGAAGGAAATCCTTTCACCTGTGGACATTATTG	1200						
QY	1201	ACAGGAACAATCACCACAAACATGATGATGAGTGGCCACCTCTCTGAGCTGTTTTGTAA	1260						
Db	1201	ACAGGAACAATCACCACAAACATGATGATGAGTGGCCACCTCTCTGAGCTGTTTTGTAA	1260						
QY	1261	AATGACTGTGACAGCAAGTCTTCTGCTCTCCAAATCTCATCAGACATGAGATGTAGG	1320						
Db	1261	AATGACTGTGACAGCAAGTCTTCTGCTCTCCAAATCTCATCAGACATGAGATGTAGG	1320						
QY	1321	GAAGAACTTTTCCCGGACTGATTTTAAAAAAGGAAAAA 1362							
Db	1321	GAAGAACTTTTCCCGGACTGATTTTAAAAAAGGAAAAA 1362							
RESULT 2									
US-10-044-090-607									
; Sequence 607, Application US/10044090									
; Publication No. US20020137081A1									
; GENERAL INFORMATION:									
; APPLICANT: Olga Bandman									
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION									
; FILE REFERENCE: PA-0028 US									
; CURRENT APPLICATION NUMBER: US/10/044,090									
; CURRENT FILING DATE: 2002-01-09									
; NUMBER OF SEQ ID NOS: 850									
; SOFTWARE: PERL Program									
; SEQ ID NO 607									
; LENGTH: 3162									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
; FEATURE:									
; NAME/KEY: misc_feature									
; OTHER INFORMATION: Incyte ID No. US20020137081A1 1723675CB1									
US-10-044-090-607									
Query Match 99.6%; Score 1356.2; DB 14; Length 3162;									
Best Local Similarity 99.8%; Pred. No. 0;									
Matches 1358; Conservative 0; Mismatches 3; Indels 0; Gaps 0;									
QY	2	GGCGAGCTCTGCAAAAGTTTCTGCTCGGATCTGGCTCTCTTCCCTTGGACTTTAGAAC	61						
Db	141	GGCGAGCTCTGCAAAAGTTTCTGCTCGGATCTGGCTCTCTTCCCTTGGACTTTAGAAC	200						
QY	62	GATTTAGGTTGACAGAGAAAGCAGAGCGCGCAGAGGAGGAGGAGGAGGAGGAGGAGG	121						
Db	201	GATTTAGGTTGACAGAGAAAGCAGAGCGCGCAGAGGAGGAGGAGGAGGAGGAGGAGG	260						
QY	122	GCAGTTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	181						
Db	261	GCAGTTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	320						
QY	182	CCCGCCACTATCCGAGAGCTCTGGCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	241						
Db	321	CCCGCCACTATCCGAGAGCTCTGGCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	380						
QY	242	GCTGTTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	301						
Db	381	GCTGTTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	440						
QY	302	CTACAGAGTACGACAAAGCGATCTCCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGG	361						
Db	441	CTACAGAGTACGACAAAGCGATCTCCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGG	500						

Qy	362	CAACAA	CCCGAGGAGGAGCGCAGAAAGCGGGTCTGTCTATCTGCTCGACCTCTTTCTG	421
Db	501	CAACAA	CCCGAGGAGGAGCGCAGAAAGTGGGTCTGTCTATCTGCTCGACCTCTTTCTG	560
Qy	422	CCTCTT	CATGCGGGCCTCCCTTCTTCATCATCGAGCAAGCAACCATCAAGCCTTACCA	481
Db	561	CCTCTT	CATGCGGGCCTCCCTTCTTCATCATCGAGCAAGCAACCATCAAGCCTTACCA	620
Qy	482	CCGAGGGTTT	TA CTGCAATGATGAGAGCATCAAGTACCCACTGAAAACTGGTGAGACAAT	541
Db	621	CCGAGGGTTT	TACTGCAATGATGAGAGCATCAAGTACCCACTGAAAACTGGTGAGACAAT	680
Qy	542	AAATGACGCTGTGCTCTGTGCGGTGGGGATCGTCATTTGCCATCTCCGATCATCAGGG	601	
Db	681	AAATGACGCTGTGCTCTGTGCGGTGGGGATCGTCATTTGCCATCTCCGATCATCAGGG	740	
Qy	602	GGAAATCTTACCGGATCTATTACCTGAAAGAGTCCGGTTCGACGATTCAGAAACCCCTACGT	661	
Db	741	GGAAATCTTACCGGATCTATTACCTGAAAGAGTCCGGTTCGACGATTCAGAAACCCCTACGT	800	
Qy	662	GGCAGCACTCTATAAGCAAGTGGGCTGCTTCTCTTTGGGTGGCCATCAGCCAGTCTTT	721	
Db	801	GGCAGCACTCTATAAGCAAGTGGGCTGCTTCTCTTTGGGTGGCCATCAGCCAGTCTTT	860	
Qy	722	CACAGACATTTGCCAAAGTGTCATAGGGCGCTCGGTCTTCTTTTGGTGTCTGCAATTTAGTGTCTGCAA	781	
Db	861	CACAGACATTTGCCAAAGTGTCATAGGGCGCTCGGTCTTCTTTTGGTGTCTGCAATTTAGTGTCTGCAA	920	
Qy	782	CCCTGATTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGTCAGAGG	841	
Db	921	CCCTGATTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGTCAGAGG	980	
Qy	842	TGATGACAGCAAGTCCAGGAAGCCAGAAAGTCTTCTTCTGTGGCCATGCCCTCTCTTC	901	
Db	981	TGATGACAGCAAGTCCAGGAAGCCAGAAAGTCTTCTTCTGTGGCCATGCCCTCTCTTC	1040	
Qy	902	CATGTACACATGCTGTATTGGTGTCTATACCTGTCAGGCCCGCTTCACTTTGGCGAGGAGC	961	
Db	1041	CATGTACACATGCTGTATTGGTGTCTATACCTGTCAGGCCCGCTTCACTTTGGCGAGGAGC	1100	
Qy	962	CCGCTCTGCTCCGGCCCTCTCTGCAAGTTCACTCTGATCATGATGCCCTTCTACACGGGACT	1021	
Db	1101	CCGCTCTGCTCCGGCCCTCTCTGCAAGTTCACTCTGATCATGATGCCCTTCTACACGGGACT	1160	
Qy	1022	GTCTCGGGTATCAGACACAGCAACCATCCAGTGTATGTTCTGGCAGGATTTGCTCAAGG	1081	
Db	1161	GTCTCGGGTATCAGACACAGCAACCATCCAGTGTATGTTCTGGCAGGATTTGCTCAAGG	1220	
Qy	1082	AGCCCTGGTGGCGCTGTGCTAGTATTTCTTCTGTCTGACCTCTTCAAGACTAAGACGAC	1141	
Db	1221	AGCCCTGGTGGCGCTGTGCTAGTATTTCTTCTGTCTGACCTCTTCAAGACTAAGACGAC	1280	
Qy	1142	GCTCTCCCTGCCTGCCCTGCTATCCGGAAGGAAATCCTTTTCACTGTGGACATTTATGA	1201	
Db	1281	GCTCTCCCTGCCTGCCCTGCTATCCGGAAGGAAATCCTTTTCACTGTGGACATTTATGA	1340	
Qy	1202	CAGGAACAATCACCACACATGATGTAGGTGCCACCCACTCTCTGAGCTGTTTTTGTAAA	1261	
Db	1341	CAGGAACAATCACCACACATGATGTAGGTGCCACCCACTCTCTGAGCTGTTTTTGTAAA	1400	
Qy	1262	ATGACTGCTGACAGCAAGTTCTTGTGCTCTCTCAAATCTCATCAGACAGTAGAATGTAGGG	1321	
Db	1401	ATGACTGCTGACAGCAAGTTCTTGTGCTCTCTCAAATCTCATCAGACAGTAGAATGTAGGG	1460	
Qy	1322	AAAACTTTTGGCCGACTGATTTTTTAAAAA	1362	
Db	1461	AAAACTTTTGGCCGACTGATTTTTTAAAAA	1501	

```

; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Burczynski, Michael E.
; APPLICANT: Twine, Natalie C.
; APPLICANT: Dornier, Andrew J.
; APPLICANT: Trepicchio, William L.
; APPLICANT: Slonim, Donna K.
; APPLICANT: Stover, Jennifer A.
; TITLE OF INVENTION: METHODS FOR DIAGNOSING RCC AND OTHER SOLID TUMORS
; FILE REFERENCE: AM101080L
; CURRENT APPLICATION NUMBER: US/10/717,597
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 60/459,782
; PRIOR FILING DATE: 2003-04-03
; PRIOR APPLICATION NUMBER: US 60/427,982
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 4904
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 65
; LENGTH: 1445
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-717-597-65

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RESULT 3  
US-10-717-597-65  
; Sequence 65, Application US/10717597  
; Publication No. US20040110221A1

Db 743 GGCGACACTCTATAAGCAAGTGGCTGCTTCTCTTTGGCTGCGCATCAGCCAGTCTTT 802  
Qy 722 CACAGACATTGGCCAAAGTGTCCATAGGGGCGCTGCGTCTCTCTCTTCTGAGTGTCTGCAA 781  
Db 803 CACAGACATTGGCCAAAGTGTCCATAGGGGCGCTGCGTCTCTCTCTTCTGAGTGTCTGCAA 862  
Qy 782 CCTGTATTTGAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGCGAGAG 841  
Db 863 CCTGTATTTGAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGCGAGAG 922  
Qy 842 TGATGACAGCAAGTCCAGGACCCAGGAGTCTTCTCTCTGCGCATGCCCTCTCTCTC 901  
Db 923 TGATGACAGCAAGTCCAGGAGCCAGGAGTCTTCTCTCTGCGCATGCCCTCTCTCTC 982  
Qy 902 CATGTACACTATGCTCTGATTTGGTGTCTATACCTGTCAGGCGCGCTTCACTTTGGCGAGGAGC 961  
Db 983 CATGTACACTATGCTCTGATTTGGTGTCTATACCTGTCAGGCGCGCTTCACTTTGGCGAGGAGC 1042  
Qy 962 CCGCTGCTCCGGCCCTCTCTGAGTTTCACTTGTATGATGATGCTTCTTACACGGGACT 1021  
Db 1043 CCGGCTGCTCCGGCCCTCTCTGAGTTTCACTTGTATGATGATGCTTCTTACACGGGACT 1102  
Qy 1022 GTCTCCGCTATCAGACCAAGCACCACCTCCAGTGTATGCTGCGAGGATTTGCTCAAG 1081  
Db 1103 GTCTCCGCTATCAGACCAAGCACCACCTCCAGTGTATGCTGCGAGGATTTGCTCAAG 1162  
Qy 1082 AGCCCTGCTGGCTGCTGATAGTTTCTTCTGCTGCTGACCTCTTCAAGACTAAGACGAC 1141  
Db 1163 AGCCCTGCTGGCTGCTGATAGTTTCTTCTGCTGCTGACCTCTTCAAGACTAAGACGAC 1222  
Qy 1142 GCTCTCCCTGCTGCGCTGCTATCCGGAAGGAAATCCTTTTACCTGTGACATTTGA 1201  
Db 1223 GCTCTCCCTGCTGCGCTGCTATCCGGAAGGAAATCCTTTTACCTGTGACATTTGA 1282  
Qy 1202 CAGGAACAATCACCACCAATGATGATGCTGCTGCTGACCTCTTCAAGACTAAGACGAC 1261  
Db 1283 CAGGAACAATCACCACCAATGATGATGCTGCTGCTGACCTCTTCAAGACTAAGACGAC 1342  
Qy 1262 ATGACTGTGACAGCAAGTCTTGTGCTCTCCAAATCTCATCAGACAGTAGAATGTAGG 1321  
Db 1343 ATGACTGTGACAGCAAGTCTTGTGCTCTCCAAATCTCATCAGACAGTAGAATGTAGG 1402  
Qy 1322 AAAAACTTTGCCGAGTGAATTTTAAAAAATAAAAAA 1362  
Db 1403 AAAAACTTTGCCGAGTGAATTTTAAAAAATAAAAAA 1443

RESULT 4

US-09-880-107-3434  
; Sequence 3434, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3434  
; LENGTH: 1444  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U79294

US-09-880-107-3434  
Query Match 88.5%; Score 1205; DB 9; Length 1444;  
Best Local Similarity 95.0%; Pred. No. 0;  
Matches 1293; Conservative 0; Mismatches 0; Indels 68; Gaps 2;  
Qy 2 GCGAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCTTGGACTTTAGAAC 61  
Db 150 GCGAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCTTGGACTTTAGAAC 209  
Qy 62 GATTTAGGGTTTACAGAGGAAAGCAGAGCGCGCAGGAGGAGCAGAAAAACACACCTTCT 121  
Db 210 GATTTAGGGTTTACAGAGGAAAGCAGAGCGCGCAGGAGGAGCAGAAAAACACACCTTCT 269  
Qy 122 CGAGTTGAGGAGCAGCGCCCGGCTGCACTCTAGCCGCGCGCCGAGGAGCGGCGCGA 181  
Db 270 CGAGTTGAGGAGCAGCGCCCGGCTGCACTCTAGC----- 305  
Qy 182 CCGGCCACTATCCGACAGACCTCGGCCAGGAGGAGACCCGGGCGCTGGTGTGTGGCT 241  
Db 306 ----- 322  
Qy 242 GCTGTTGCGGGACGCTTTCGCGGGCGGGAGGCTCGCGCGCAGCGCAGCGCCATGCAAAA 301  
Db 323 GCTGTTGCGGGACGCTTTCGCGGGCGGGAGGCTCGCGCGCAGCGCAGCGCCATGCAAAA 382  
Qy 302 CTACAAGTACGAAAGCGATCGTCCCGAGAGCAAGAACCGCGCGCAGCGCGCGCTCAA 361  
Db 383 CTACAAGTACGAAAGCGATCGTCCCGAGAGCAAGAACCGCGCGCAGCGCGCGCTCAA 442  
Qy 362 CAAACCCGAGGAGGAGCGGCGAGCAAGCGGGTGTCTCATCTGCTGACCTTCTCTG 421  
Db 443 CAAACCCGAGGAGGAGCGGCGAGCAAGCGGGTGTCTCATCTGCTGACCTTCTCTG 502  
Qy 422 CCTCTTCATGCGGGCGCTCCCTTCTCATCATCGAGCAAGCAACCATCAAGCCTTACCA 481  
Db 503 CCTCTTCATGCGGGCGCTCCCTTCTCATCATCGAGCAAGCAACCATCAAGCCTTACCA 562  
Qy 482 CCGAGGTTTACTGCAATGATGAGCATCAAGTACCACTGAAACCTGGTGAGACAAT 541  
Db 563 CCGAGGTTTACTGCAATGATGAGCATCAAGTACCACTGAAACCTGGTGAGACAAT 622  
Qy 542 AAATGACGCTGTCTGTGCGGTGGGATCGTCAATGCGCATCTCGCATCATCACGG 601  
Db 623 AAATGACGCTGTCTGTGCGGTGGGATCGTCAATGCGCATCTCGCATCATCACGG 682  
Qy 602 GGAATTTACCGGATCTATTACCTGAAGAGTCCGGTCCAGCATTCAGAACCCCTACGT 661  
Db 683 GGAATTTACCGGATCTATTACCTGAAGAGTCCGGTCCAGCATTCAGAACCCCTACGT 742  
Qy 662 GCGAGCACTCTATAAGCAAGTGGGCTGCTTCTCTTTGGCTGTGCCATCAGCCAGTCTTT 721  
Db 743 GCGAGCACTCTATAAGCAAGTGGGCTGCTTCTCTTTGGCTGTGCCATCAGCCAGTCTTT 802  
Qy 722 CACAGACATTGCCAAAGTGTCCATAGGGCGCTGCGTCTCTCTCTGAGTGTCTGCAA 781  
Db 803 CACAGACATTGCCAAAGTGTCCATAGGGCGCTGCGTCTCTCTCTGAGTGTCTGCAA 862  
Qy 782 CCTGATTTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGCGAGAG 841  
Db 863 CCTGATTTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGCGAGAG 922  
Qy 842 TGATGACAGCAAAAGTCCAGGAAAGCGGAAAGTCTTCTTCTTCTGCGCATGCCCTCTCTC 901  
Db 923 TGATGACAGCAAAAGTCCAGGAAAGCGGAAAGTCTTCTTCTCTGCGCATGCCCTCTCTC 982  
Qy 902 CATGTACACTATGCTGTATTTGGTGTCTATACCTGTCAGGCGCGCTTCACTTTGGCGAGGAGC 961  
Db 983 CATGTACACTATGCTGTATTTGGTGTCTATACCTGTCAGGCGCGCTTCACTTTGGCGAGGAGC 1042  
Qy 962 CCGCTGCTCCGGCCCTCTCTGACGTTTCACTTGTATGATGATGCTTCTTACACGGGACT 1021  
Db 1043 CCG-CTGCTCCGGCCCTCTCTGACGTTTCACTTGTATGATGATGCTTCTTACACGGGACT 1101





## RESULT 6

QY	986	GTTCACTTGTATCATGATGGCCCTTCTACAGGGACTGTCCTCGCGTATCAGACACAAGCA	1045
Db	541		
Db	541	GTTCACTTTTGCTCATGATGGCCCTTCTACAGGGATTGTCACGGGTATCTGACTACAAGCA	600
QY	1046	CCATCCCAGTGA TGTTCTGGCAGGATTTGCTCAAGGAGCCCTGGTGGCCCTGCTGCATAGT	1105
Db	601		
Db	601	TCATCCTAGCGATGCTCTGGCAGGATTTGCCAAGGAGCTCTGGTGGCCCTGCTGCATAGT	660
QY	1106	TTTTCTTCGTGTCGACTCTTTCAAAGACTAAAGACGACGCTCTCCCTGCTGCCCCCTGCCTAT	1165
Db	661		
Db	661	GTTCTTCGTGTCGCGACCTCTTTCAAAGACTAAAGACGAGCTCTCACTGCCCCCTGCGAT	720
QY	1166	CCGGAAGGAAAATCCTTTTACCCTGTGGACATTTATTGACAGGAACAATCACCAACAACATGAT	1225
Db	721		
Db	721	CAGGAGGGAGATCCTGTCTCCCTGGACATCATCGACAGGAACAATCACCAATCAACATGGT	780
QY	1226	GTAGTGGCACCGACCTCTCGAGCTGTTTTTTGTAATAATGACTGCTGACAGCAAGTCTCTTG	1285
Db	781		
Db	781	GTAGATG-CTGGCGCTCCGGAGCGCTTTCTCTGAAGCGACT-----GCACGTTCCTCG	832
QY	1286	CTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGGAAAAAATTTTTGCCCGACTGATTTT	1345
Db	833		
Db	833	CTGCTCTCCGATCTCATCAGACAGTAGAATGTAGGGAAAAAGCTTTTTGCCCGACTGATTTT	892
QY	1346	TAAAAAAAAAAAAAAAAAAAA 1362	
Db	893		
Db	893	GAAAAACATTTAAAAAAA 909	

RESULT 7  
US-10-332-859-217  
US-10-332-859-331 : Sequence 217 : Application US/10332859

## RESULT 7

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US-10-332-859-217
; Sequence 217, Application US/10332859
; Publication No. US20040088746A1
; GENERAL INFORMATION:
; APPLICANT: Grimm, Stefan
; APPLICANT: Schoenfeld, Nicole
; APPLICANT: Brazilius, Erik
; APPLICANT: Cramer, Ursula
; APPLICANT: Gewies, Andreas
; APPLICANT: Voss, Frank
; APPLICANT: Mund, Thomas
; APPLICANT: Albayrak, Timur
; APPLICANT: Gille, Hendrik
; APPLICANT: Klein, Matthias
; APPLICANT: Bauer, Manuel
; TITLE OF INVENTION: Apoptosis-Inducing DNA Sequences
; FILE REFERENCE: 2923-0133
; CURRENT APPLICATION NUMBER: US/10/332,859
; CURRENT FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: PCT/EP01/08170
; PRIOR FILING DATE: 2001-07-13
; NUMBER OF SEQ ID NOS: 355
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 217
; LENGTH: 804
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (125)..(723)
; OTHER INFORMATION: n = any nucleotide
US-10-332-859-217

Query Match 44.9%; Score 612.2; DB 19; Length 804;
Best Local Similarity 85.1%; Pred. No. 3e-176;
Matches 684; Conservative 0; Mismatches 117; Indels 3; Gaps 1;

Qy 429 ATGCGGGCGCTCCCTTCCTCATCTCGAGACAAGCACACNTCAAGCGTTACCAACCGAGG 488
Db 1 ATGCGGGCTGTGCGCTTCCTCATCTCGAGACAAGCACACCATTAAGCGCTTACCGTCGAGG 60
Qy 489 TTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAACCTGGTGAGACAATAAATGAC 548

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Db 61 TTTTACTGCAATGACGAGGATCAAGTATCCCTGAAAGTCAGTGAGACTATAAACGAT 120  
Qy 549 GCTGTGCTCTGTGCGCTGGGATCGTCATTCGATCCTCGCATCATACGGGGGAATTC 608  
Db 121 GCTGNGCTCTGNGCGNGGGGATCGTCATCGCCATCCTGGCGATCAATTACAGGGGAATTC 180  
Qy 609 TACCGGATCTATTACCT---GAAGAAAGTCGCGGTGACGATTCAGAAACCCCTACGTGGCA 665  
Db 181 TACCGGATCTATTACCTCAAGGAGAAGTCCCGCTCCACCATCAGAACCCGATATGTGGCA 240  
Qy 666 GCACCTATAAGCAAGTGGGCTGCTTCTCTTTGGCTGTGCCATCAGCCAGTCTTTTACA 725  
Db 241 GNCNCNATAAGCAAGTGNATGTCNTCTTTNNGNTGTGCAATTAGCAAGTCTTTCAANN 300  
Qy 726 GACATTGCCAAAGTGTCCATAGGGCGCTCGCTCCTCACTTCTTGAGTCTGTGCAACCT 785  
Db 301 GNCATCGCCAAAGTGTCCATCGGCGCCCTTAAGCCCTCACTTCTNAGCGTCTGTGACCT 360  
Qy 786 GATTTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATTCAGAGGTGAT 845  
Db 361 GATTTTCAGTCAGATCAATTGCTCCGAGGGCTACATTCAGANCTACAGGTGCAGAGAA 420  
Qy 846 GACAGAAAGTCAGAAAGCAGGAAGTCTTCTTCTTGCCCATGCCCTCTTCTCCATG 905  
Db 421 GNCAGCANAGTACAGGAGCCAGGAAGTCTTCTTCTCGGGCCACGCCCTCTTCTCCATG 480  
Qy 906 TACACTATCTGTATTGTGTATACCTGCGAGCGCTTCACTTGGCGAGAGCCCGC 965  
Db 481 TACACTATCTGTATCTGTGTCTTACCTTCAGGCGCGCTTCACTTGGCGAGGGCCGA 540  
Qy 966 CTGCTCCGCGCCCTCTCGAGTTCACCTTGATCATGATGCGCTTTCACACGGGACTGTCT 1025  
Db 541 CTGCTCCGCGCCCTCTCGAGTTCACCTTGTCTCATGATGGCTTCTACAGGGATGTCA 600  
Qy 1026 CGGATATACAGACAAAGCAGCATCCAGTGATGTTCTGGCAGGATTTGCTCAAGGAGCC 1085  
Db 601 CGGGTATCTGACTACAAAGCATCATCTAGCGATGCTCTGGCAGATTTGCCAAGGAGCT 660  
Qy 1086 CTGTTGGCTGCTGATAGTTTCTTCTGTCGACCTTTCAGACTTAAGACGAGCTC 1145  
Db 661 CTGGTGGCTGCTGCAATGTTCTTCTGTCGACCTTTCAGACTTAAGACGAGCTC 720  
Qy 1146 TCCTGCTCCGCTGCTCTATCCGAGGAAATCTTTTACCTGTGGACATTTTACAGG 1205  
Db 721 TNCCTGCGCGCCCTCGCATCAGAGGAGATCTCTCTCCGCTGACATCATCGACAG 780  
Qy 1206 AACAAATCACCAACATGATGTAG 1229  
Db 781 AACAAATCACCAACATGATGTAG 804

RESULT 8  
US-09-918-995-31572  
; Sequence 31572, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE OF INVENTION: FROM VARIOUS CDNA LIBRARIES  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 31572  
; LENGTH: 486  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature

; LOCATION: (1) ... (486)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-31572  
Query Match 32.6%; Score 444; DB 10; Length 486;  
Best Local Similarity 99.8%; Pred. No. 7.5e-125;  
Matches 444; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 247 TCGCGGAGCGTCTTCGCGGGCGGGAGGCTCGCGCGCAGCCAGCGCATGCAAACTACA 306  
Db 42 TCGCGGAGCGTCTTCGCGGGCGGGAGGCTCGCGCGCAGCCAGCGCATGCAAACTACA 101  
Qy 307 AGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCGAGCCGGGCTCAACAACA 366  
Db 102 AGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCGAGCCGGCTCAACAACA 161  
Qy 367 ACCGAGGAGGAGCGCAGCAAGCGGCTGCTCTCATCTGCTCTGACCTCTTCTGCTCT 426  
Db 162 ACCGAGGAGGAGCGCAGCAAGCGGCTGCTCTCATCTGCTCTGACCTCTTCTGCTCT 221  
Qy 427 TCATGCGGGCGCTCCCTTCTCTCATCTGAGACAGCAACCATCAAGCCCTTACCACCGAG 486  
Db 222 TCATGCGGGCGCTCCCTTCTCTCATCTGAGACAGCAACCATCAAGCCCTTACCACCGAG 281  
Qy 487 GGTTTTACTGCAATGATGAGCATCAAGTACCCTGAAACTGGTGAGACAATAATG 546  
Db 282 GGTTTTACTGCAATGATGAGCATCAAGTACCCTGAAACTGGTGAGACAATAATG 341  
Qy 547 AGCTGTGCTCTGTGCGGTGGGATCGTCAATTCGCATCTCGGATCATCACGGGGAAT 606  
Db 342 AGCTGTGCTCTGTGCGGTGGGATCGTCAATTCGCATCTCGGATCATCACGGGGAAT 401  
Qy 607 TCTACCGGATCTATTACCTGAAAGAGTCGCGGTGAGCAATTCAGAACCCCTAGTGGCAG 666  
Db 402 TCTACCGGATCTATTACCTGAAAGAGTCGCGGTGAGCAATTCAGAACCCCTAGTGGCAG 461  
Qy 667 CACTCTATAAGCAAGTGGGCTGCTT 691  
Db 462 CACTCTATAAGCAAGTGGGCTGCTT 486

RESULT 9  
US-09-878-178-2091  
; Sequence 2091, Application US/09878178  
; Patent No. US20030177552A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER  
; FILE REFERENCE: 210121.527  
; CURRENT APPLICATION NUMBER: US/09/878,178  
; CURRENT FILING DATE: 2001-06-08  
; NUMBER OF SEQ ID NOS: 2237  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2091  
; LENGTH: 538  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-878-178-2091

Query Match 32.4%; Score 441.8; DB 9; Length 538;  
Best Local Similarity 99.3%; Pred. No. 3.7e-124;  
Matches 454; Conservative 0; Mismatches 2; Indels 1; Gaps 1;  
Qy 907 ACACATATGCTGTATTGGTGCTATACCTGCGAGCCCGCTTCACTTGGCGAGGAGCCGCC 966  
Db 1 ACACATATGCTGTATTGGTGCTATACCTGCGAGCCCGCTTCACTTGGCGAGGAGCCGCC 60  
Qy 967 TGTCTCGGCCCTCTCTGCAAGTTCACCTTGATCATGATGCGCTTCTACAGGGAGCTCTC 1026  
Db 61 TGTCTCGGCCCTCTCTGCAAGTTCACCTTGATCATGATGCGCTTCTACAGGGAGCTCTC 120

QY 1027 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 1086  
DB 121 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 180  
QY 1087 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 1146  
DB 181 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 240  
QY 1147 CCTGCTGCTGCC-CTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 1205  
DB 241 CCTGCTGCTGCCCTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 300  
QY 1206 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 1265  
DB 301 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 360  
QY 1266 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 1325  
DB 361 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 420  
QY 1326 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 1362  
DB 421 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 457  
RESULT 10  
US-10-046-935-2091  
; Sequence 2091, Application US/10046935  
; Publication No. US20020156011A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Secretist, Heather  
; APPLICANT: Wang, Aijun  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.527C1  
; CURRENT FILING DATE: 2002-01-15  
; NUMBER OF SEQ ID NOS: 2239  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2091  
; LENGTH: 538  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-046-935-2091

Query Match 32.4%; Score 441.8; DB 14; Length 538;  
Best Local Similarity 99.3%; Pred. No. 3.7e-124;  
Matches 454; Conservative 0; Mismatches 2; Indels 1; Gaps 1;  
QY 907 ACACATATGCTGATTTGGTGCTATACCTGACGAGCCCGCTTCACTTGGCAGGAGCCGCC 966  
DB 1 ACACATATGCTGATTTGGTGCTATACCTGACGAGCCCGCTTCACTTGGCAGGAGCCGCC 60  
QY 967 TGTCTCGGCCCTCTCTGCAGTTTCACTTGCATGATGGCTTCTACAGGGACTGTCTC 1026  
DB 61 TGTCTCGGCCCTCTCTGCAGTTTCACTTGCATGATGGCTTCTACAGGGACTGTCTC 120  
QY 1027 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 1086  
DB 121 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 180  
QY 1087 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 1146  
DB 181 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 240  
QY 1147 CCTGCTGCTGCC-CTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 1205  
DB 241 CCTGCTGCTGCCCTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 300  
QY 1206 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 1265  
DB 301 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 360  
QY 1266 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 1325  
DB 361 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 420  
QY 1326 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 1362  
DB 421 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 457

QY 1206 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 1265  
DB 301 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 360  
QY 1266 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 1325  
DB 361 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 420  
QY 1326 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 1362  
DB 421 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 457  
RESULT 11  
US-10-146-502-2091  
; Sequence 2091, Application US/10146502  
; Publication No. US20030069180A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Secretist, Heather  
; APPLICANT: Wang, Aijun  
; APPLICANT: Stolk, John A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.527C2  
; CURRENT FILING DATE: 2002-05-14  
; NUMBER OF SEQ ID NOS: 2241  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2091  
; LENGTH: 538  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-146-502-2091

Query Match 32.4%; Score 441.8; DB 15; Length 538;  
Best Local Similarity 99.3%; Pred. No. 3.7e-124;  
Matches 454; Conservative 0; Mismatches 2; Indels 1; Gaps 1;  
QY 907 ACACATATGCTGATTTGGTGCTATACCTGACGAGCCCGCTTCACTTGGCAGGAGCCGCC 966  
DB 1 ACACATATGCTGATTTGGTGCTATACCTGACGAGCCCGCTTCACTTGGCAGGAGCCGCC 60  
QY 967 TGTCTCGGCCCTCTCTGCAGTTTCACTTGCATGATGGCTTCTACAGGGACTGTCTC 1026  
DB 61 TGTCTCGGCCCTCTCTGCAGTTTCACTTGCATGATGGCTTCTACAGGGACTGTCTC 120  
QY 1027 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 1086  
DB 121 GCGTATCAGACCAACAGACCAATCCAGTGATGTTCTGCGAGGATTTGCTCAAGGAGCCC 180  
QY 1087 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 1146  
DB 181 TGGTGGCCCTGCTGCATAGTATTTCTTCTGCTGCTGCTCTTCAAGACTTAAGACGCGCTCT 240  
QY 1147 CCTGCTGCTGCC-CTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 1205  
DB 241 CCTGCTGCTGCCCTGCTATCCGGAAGGAAATCCTTTACCTGTGTGACATTTATGACAGG 300  
QY 1206 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 1265  
DB 301 AACAAATCACCACCAACATGATAGTAGTGCCACCCACCTCTGAGCTGTTTTTGTAAATGA 360  
QY 1266 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 1325  
DB 361 CTGCTGACAGCAAGTTCTTCTGCTGCTCTCCAATCTCATCAGACAGTAGAATGTAGGAAAA 420  
QY 1326 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 1362  
DB 421 ACTTTTGCCCGACTGATTTTTTAAAAAAGGAAAAA 457

RESULT 12  
US-09-918-995-29157  
; Sequence 29157, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 29157  
; LENGTH: 490  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; LOCATION: (1)...(490)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-918-995-29157

Query Match 31.9%; Score 434.4; DB 10; Length 490;  
Best Local Similarity 99.8%; Pred. No. 6.5e-122;  
Matches 435; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 452 CATCGAGACAAAGCACCATTCAAGCCTTACCAACCGAGGGTTTTACTGCAATGATGAGAGCAT 511  
DB 54 CATCGAGACAAAGCACCATTCAAGCCTTACCAACCGAGGGTTTTACTGCAATGATGAGAGCAT 113  
QY 512 CAAGTACCCACTGAAACTGGTGAGACAATAAATGACGCTGTGCTGTGCCGTGGGGAT 571  
DB 114 CAAGTACCCACTGAAACTGGTGAGACAATAAATGACGCTGTGCTGTGCCGTGGGGAT 173  
QY 572 CGTCATTGGCCATCTCGCGATCATCAGCGGGGAATTTACCGGATCTATTACCTGAAGAA 631  
DB 174 CGTCATTGGCCATCTCGCGATCATCAGCGGGGAATTTACCGGATCTATTACCTGAAGAA 233  
QY 632 GTCGCGGTGACGATTCAGAACCCCTACGTCGGAGCACTCTATAAGCAAGTGGGCTGCTT 691  
DB 234 GTCGCGGTGACGATTCAGAACCCCTACGTCGGAGCACTCTATAAGCAAGTGGGCTGCTT 293  
QY 692 CCTCTTTGGCTGTGCCATCAGCCAGTCTTTCAGAGACATTCGCAAAAGTGCCATAGGGCG 751  
DB 294 CCTCTTTGGCTGTGCCATCAGCCAGTCTTTCAGAGACATTCGCAAAAGTGCCATAGGGCG 353  
QY 752 CTTGGCTCTCACTCTTTGAGTGTCTGCAACCCCTGATTTTCAGCCAGATCAACTGCTCTGA 811  
DB 354 CTTGGCTCTCACTCTTTGAGTGTCTGCAACCCCTGATTTTCAGCCAGATCAACTGCTCTGA 413  
QY 812 AGGCTACATTCAGAACTACAGATTCAGAGGTGATGACAGCAAAAGTCCAGGAAGCCAGGAA 871  
DB 414 AAGCTACATTCAGAACTACAGATTCAGAGGTGATGACAGCAAAAGTCCAGGAAGCCAGGAA 473  
QY 872 GTCCTTCTCTCTGGC 887  
DB 474 GTCCTTCTCTCTGGC 489

RESULT 13  
US-09-918-995-29158  
; Sequence 29158, Application US/09918995  
; Publication No. US20030073623A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
; FILE REFERENCE: 20411-756  
; CURRENT APPLICATION NUMBER: US/09/918,995  
; CURRENT FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: US/09/235,076  
; PRIOR FILING DATE: 1999-01-20  
; NUMBER OF SEQ ID NOS: 38054  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 29158  
; LENGTH: 437  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-995-29158

Query Match 31.6%; Score 430.6; DB 10; Length 437;  
Best Local Similarity 99.1%; Pred. No. 9e-121;  
Matches 433; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 452 CATCGAGACAAAGCACCATTCAAGCCTTACCAACCGAGGGTTTTACTGCAATGATGAGAGCAT 511  
DB 1 CATCGAGACAAAGCACCATTCAAGCCTTACCAACCGAGGGTTTTACTGCAATGATGAGAGCAT 60  
QY 512 CAAGTACCCACTGAAACTGGTGAGACAATAAATGACGCTGTGCTGTGCCGTGGGGAT 571  
DB 61 CAAGTACCCACTGAAACTGGTGAGACAATAAATGACGCTGTGCTGTGCCGTGGGGAT 120  
QY 572 CGTCATTGGCCATCTCGCGATCATCAGCGGGGAATTTACCGGATCTATTACCTGAAGAA 631  
DB 121 CGTCATTGGCCATCTCGCGATCATCAGCGGGGAATTTACCGGATCTATTACCTGAAGAA 180  
QY 632 GTCGCGGTGACGATTCAGAACCCCTACGTCGGAGCACTCTATAAGCAAGTGGGCTGCTT 691  
DB 181 GTCGCGGTGACGATTCAGAACCCCTACGTCGGAGCACTCTATAAGCAAGTGGGCTGCTT 240  
QY 692 CCTCTTTGGCTGTGCCATCAGCCAGTCTTTCAGAGACATTCGCAAAAGTGCCATAGGGCG 751  
DB 241 CCTCTTTGGCTGTGCCATCAGCCAGTCTTTCAGAGACATTCGCAAAAGTGCCATAGGGCG 300  
QY 752 CTTGGCTCTCACTCTTTGAGTGTCTGCAACCCCTGATTTTCAGCCAGATCAACTGCTCTGA 811  
DB 301 CTTGGCTCTCACTCTTTGAGTGTCTGCAACCCCTGATTTTCAGCCAGATCAACTGCTCTGA 360  
QY 812 AGGCTACATTCAGAACTACAGATTCAGAGGTGATGACAGCAAAAGTCCAGGAAGCCAGGAA 871  
DB 361 AGGCTACATTCAGAACTACAGATTCAGAGGTGATGACAGCAAAAGTCCAGGAAGCCAGGAA 420  
QY 872 GTCCTTCTCTCTGGC 888  
DB 421 GTCCTTCTCTCTGGC 437

RESULT 14  
US-10-242-535A-3210  
; Sequence 3210, Application US/10242535A  
; Publication No. US20040013663A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2005  
; CURRENT APPLICATION NUMBER: US/10/242,535A  
; CURRENT FILING DATE: 2002-09-12  
; PRIOR APPLICATION NUMBER: US 10/085,783  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 3210  
; LENGTH: 374  
; TYPE: DNA  
; ORGANISM: Human  
US-10-242-535A-3210

Query Match 26.3%; Score 358.8; DB 18; Length 374;  
Best Local Similarity 99.2%; Pred. No. 8e-99;  
Matches 371; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 172 CGGGGCGGACCGCCACTATCCGACGAGCTTCGGCCAGGAGGCGACCGGGCGCTGG 231  
DB 2 CGGGGCGGACCGCCACTATCCGACGAGCTTCGGCCAGGAGGCGACCGGGCGCTGG 61

QY 232 GTGTGTGGCTGCTGTTGCGGAGCTTTCGCGGGCGGAGGCTTCGCGCGCGAGCGG 291  
DB 62 GTGTGTGGCTGCTGTTGCGGAGCTTTCGCGGGCGGAGGCTTCGCGCGCGAGCGG 121

QY 292 CCATGCAAACTACAAGTACGACAAAGCGATCGTCCGAGAGCAAGAAACGGCGGCG 351  
DB 122 CCATGCAAACTACAAGTACGACAAAGCGATCGTCCGAGAGCAAGAAACGGCGG 181

QY 352 CGGCGCTCAACAACCCGAGGAGGCGGAGCGGAGGCTTCGCGCGCGAGCGGCTGCT 411  
DB 182 GGGCGCTCAACAACCCGAGGAGGCGGCA-CAAGCGGGTGTCTCATCTGCTCG 240

QY 412 ACCTCTTCTGCTCTTTCATGGCGGCTTCCTCTTCATCATCGAGCAAGCAACCATCA 471  
DB 241 ACCTCTTCTGCTCTTTCATGGCGGCTTCCTCTTCATCATCGAGCAAGCAACCATCA 300

QY 472 AGCCTTACCACCGAGGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAA 531  
DB 301 AGCCTTACCACCGAGGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAA 360

QY 532 GTGAGACAATAAT 545  
DB 361 GTGAGACAATAAT 374

RESULT 15  
US-10-085-783A-3210  
; Sequence 3210, Application US/10085783A  
; Publication No. US20040037841A1  
; GENERAL INFORMATION:  
; APPLICANT: ChondroGene Inc.  
; APPLICANT: Liew, C.C.  
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
; FILE REFERENCE: 4231/2002  
; CURRENT APPLICATION NUMBER: US/10/085,783A  
; CURRENT FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 60/305,340  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/275,017  
; PRIOR FILING DATE: 2001-03-12  
; PRIOR APPLICATION NUMBER: US 60/271,955  
; PRIOR FILING DATE: 2001-02-28  
; NUMBER OF SEQ ID NOS: 58994  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 3210  
; LENGTH: 374  
; TYPE: DNA  
; ORGANISM: Human  
US-10-085-783A-3210

Query Match 26.3%; Score 358.8; DB 19; Length 374;  
Best Local Similarity 99.2%; Pred. No. 8e-99;  
Matches 371; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 172 CGGGGCGGACCGCCACTATCCGACGAGCTTCGGCCAGGAGGCGACCGGGCGCTGG 231  
DB 2 CGGGGCGGACCGCCACTATCCGACGAGCTTCGGCCAGGAGGCGACCGGGCGCTGG 61

QY 232 GTGTGTGGCTGCTGTTGCGGAGCTTTCGCGGGCGGAGGCTTCGCGCGCGAGCGG 291  
DB 62 GTGTGTGGCTGCTGTTGCGGAGCTTTCGCGGGCGGAGGCTTCGCGCGCGAGCGG 121

QY 292 CCATGCAAACTACAAGTACGACAAAGCGATCGTCCGAGAGCAAGAAACGGCGG 351  
DB 361 GTGAGACAATAAT 374

DB 122 CCATGCAAACTACAAGTACGACAAAGCGATCGTCCCGAGAGCAAGAAACGGCGGCG 181  
QY 352 CGGCGCTCAACAACCCGAGGAGGCGGAGCGGAGCTTCGCTCATCTGCTCG 411  
DB 182 GGGCGCTCAACAACCCGAGGAGGCGGCA-CAAGCGGGTGTCTCATCTGCTCG 240

QY 412 ACCTCTTCTGCTCTTTCATGGCGGCTTCCTCTTCATCATCGAGCAAGCAACCATCA 471  
DB 241 ACCTCTTCTGCTCTTTCATGGCGGCTTCCTCTTCATCATCGAGCAAGCAACCATCA 300

QY 472 AGCCTTACCACCGAGGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAA 531  
DB 301 AGCCTTACCACCGAGGGTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAA 360

QY 532 GTGAGACAATAAT 545  
DB 361 GTGAGACAATAAT 374

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Job time : 1197.41 secs

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OM nucleic - nucleic search, using sw model

Run on: November 11, 2005, 06:34:39 ; Search time 213.765 Seconds  
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9430.425 Million cell updates/sec

Title: US-08-842-827-7  
Perfect score: 1232  
Sequence: 1 ACCATGACGCGAGGTGGGT.....CAAAAAAAAAAAAAAAAAA 1232

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues  
Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/prodata/1/ina/5B COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/6A COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/6B COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/PTUS COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1163	94.4	1303	4	US-09-566-921-117
2	442.6	35.9	472	4	US-09-702-705-273
3	442.6	35.9	472	4	US-09-736-457-273
4	442.6	35.9	472	4	US-09-614-124B-273
5	442.6	35.9	472	4	US-09-671-325-273
6	442.6	35.9	472	4	US-09-589-184-273
7	442.6	35.9	472	4	US-09-558-824-273
8	438.4	35.6	472	4	US-09-702-705-342
9	438.4	35.6	472	4	US-09-736-457-342
10	438.4	35.6	472	4	US-09-614-124B-342
11	438.4	35.6	472	4	US-09-671-325-342
12	438.4	35.6	472	4	US-09-589-184-342
13	438.4	35.6	472	4	US-09-558-824-342
14	402	32.6	434	4	US-09-702-705-1590
15	402	32.6	434	4	US-09-736-457-1590
16	402	32.6	434	4	US-09-614-124B-1590
17	402	32.6	434	4	US-09-671-325-1590
18	402	32.6	434	4	US-09-589-184-1590
19	217.8	17.7	1315	3	US-08-992-035A-2
20	207.8	16.9	253	4	US-09-016-434-301
21	113.8	9.2	266	4	US-09-016-434-322
22	80.4	6.5	217	4	US-09-016-434-286
23	73.4	6.0	151	3	US-09-439-313-316
24	73.4	6.0	151	3	US-09-352-616A-316
25	73.4	6.0	151	3	US-09-232-149A-316
26	73.4	6.0	151	4	US-09-636-215-316
27	73.4	6.0	151	4	US-09-685-166A-316

28	73.4	6.0	151	4	US-09-688-489-316	Sequence 316, App
29	73.4	6.0	151	4	US-09-679-426-316	Sequence 316, App
30	73.4	6.0	151	4	US-09-759-143-316	Sequence 316, App
31	73.4	6.0	151	4	US-09-651-236-316	Sequence 11662, A
32	67.8	5.5	1967	4	US-09-270-767-11662	Sequence 28, App1
33	61.2	5.0	272	4	US-09-360-376-28	Sequence 456, App
34	59	4.8	231	3	US-09-439-313-456	Sequence 456, App
35	59	4.8	231	3	US-09-352-616A-456	Sequence 456, App
36	59	4.8	231	4	US-09-636-215-456	Sequence 456, App
37	59	4.8	231	4	US-09-685-166A-456	Sequence 456, App
38	59	4.8	231	4	US-09-679-426-456	Sequence 456, App
39	59	4.8	231	4	US-09-759-143-456	Sequence 456, App
40	59	4.8	231	4	US-09-651-236-456	Sequence 119, App
41	46.6	3.8	2406	4	US-09-976-594-119	Sequence 2, App11
42	42.2	3.4	4403765	3	US-09-103-840A-2	Sequence 1, App11
43	42.2	3.4	4411529	3	US-09-103-840A-1	Sequence 12805, A
44	40.8	3.3	666	4	US-09-252-991A-12805	Sequence 12664, A
45	40.8	3.3	1530	4	US-09-252-991A-12664	

ALIGNMENTS

RESULT 1  
US-09-566-921-117  
; Sequence 117, Application US/09566921  
; Patent No. 6682888  
; GENERAL INFORMATION:  
; APPLICANT: Loring, Jeanne F.  
; APPLICANT: Tingley, Debora W.  
; APPLICANT: Edwards, Carla M.  
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE  
; FILE REFERENCE: PA-0024 US  
; CURRENT APPLICATION NUMBER: US/09/566,921  
; CURRENT FILING DATE: 2000-05-05  
; NUMBER OF SEQ ID NOS: 138  
; SOFTWARE: PERL Program  
; SEQ ID NO 117  
; LENGTH: 1303  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. 6682888 202234.2  
US-09-566-921-117

Query Match	94.4%	Score 1163;	DB 4;	Length 1303;
Best Local Similarity	98.8%	Pred. No. 8.3e-314;		
Matches 1214;	Conservative	0;	Mismatches 10;	Indels 5; Gaps 4;
Qy	1	ACCATGACGCGAGGTGGGTCTTCTGCTGCTCGAGTCTGCTGCTTACTGCTGCTGCTCC	60	
Db	76	ACCATGACGCGAGGTGGGTCTTCTGCTGCTCGAGTCTGCTGCTTACTGCTGCTGCTCC	135	
Qy	61	CTGCGCTTCGCTATCTGACGCTGGTGAACGCCCGCTACAAGCGAGATTTTACTCGGG	120	
Db	136	CTGCGCTTCGCTATCTGACGCTGGTGAACGCCCGCTACAAGCGAGATTTTACTCGGG	195	
Qy	121	GATGACTCCATCCGTTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGTGGG	180	
Db	196	GATGACTCCATCCGTTACCCCTACCGTCCAGATACCATCACCCACGGGCTCATGGTGGG	255	
Qy	181	GTACCATCACGCCACCGTCTATCTGCTCGCGGGGAGCCCTACCTGCTGTATACACA	240	
Db	256	GTACCATCACGCCACCGTCTATCTGCTCGCGGGGAGCCCTACCTGCTGTATACACA	315	
Qy	241	GACCGGCTTATCTCGCTCGGACTTCAACAACACTAGTGGCTGCTGTATACAGGTGCTG	300	
Db	316	GACCGGCTTATCTCGCTCGGACTTCAACAACACTAGTGGCTGCTGTATACAGGTGCTG	375	
Qy	301	GGGACCTTCCTTTTGGGGCTCCCGTGAGCCAGTCTCTGACAGACCTGCGCAAGTACATG	360	
Db	376	GGGACCTTCCTTTTGGGGCTCCCGTGAGCCAGTCTCTGACAGACCTGCGCAAGTACATG	435	

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QY 361 ATTGGCGCTCTGAAGCCCACTTCTAGCCGTCTGCGACCCCACTGGAGCCGGTCAAC 420
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Db 436 ATTGGCGCTCTGAGGCCCACTTCTAGCCGTCTGCGACCCCACTGGAGCCGGTCAAC 495
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QY 421 TGTCCGCTCTATGTGAGCTGGAGAGGTGTGAGGGGAACCTCTGTATGTCACCGAG 480
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Db 496 TGTCCGCTCTATGTGAGCTGGAGAGGTGTGAGGGGAACCTCTGTATGTCACCGAG 555
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QY 481 GCCAGGTGTCTTCTACTCGGACACACTCTTCTTTGGGATGTACTGCATGGTGTCTTG 540
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Db 556 GCCAGGTGTCTTCTACTCGGACACACTCTTCTTTGGGATGTACTGCATGGTGTCTTG 615
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QY 541 GCCTGTATGTGAGGACGACACTCTGTGTGAAGTGGGACGCTGTGTGACACCAAGTC 600
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QY 601 CAGTTCTTCTGCTGGCTTTGCCCTCTAGTGGGCTACACCCGCTGTCTGATTACAA 660
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Db 676 CAGTTCTTCTGCTGGCTTTGCCCTCTAGTGGGCTACACCCGCTGTCTGATTACAA 735
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QY 661 CACCACTGGAGCGATGTCTTGTGTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACT 720
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Db 736 CACCACTGGAGCGATGTCTTGTGTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACT 795
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QY 721 GTCTGTACATCTCAGACTTCTTCAAAGCCGACCCCAAGCACTGTCTGAAGGAGGAG 780
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Db 796 GTCTGTACATCTCAGACTTCTTCAAAGCCGACCCCAAGCACTGTCTGAAGGAGGAG 855
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QY 781 GAGCTGGAAGGAGCCGAGCTGTCTGAGCTTGTGACCTTGGGGGAGGCTGACACAA 840
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Db 856 GAGCTGGAAGGAGCCGAGCTGTCTGAGCTTGTGACCTTGGGGGAGGCTGACACAA 914
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Db 973 ACTGTGAGTCCAGCTGAGGCCACCAAGGTGTGCTTCCAGGCCCTGGTATGAGCACTGAGG 1032
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QY 960 GTTCTGAGCGGCTCAGGAACCCCTGGCTGTGAGGAGGAGTGAAG--GGTTCGCTGCC 1018
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Db 1033 GCTCTGAGCGGCTCAGGAACCCCTGGCTGTGAGGAGGAGTGAAGCGGCTCGCTGCC 1092
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QY 1019 CTTGCCCTCAGCTGGACCAAGGAGTCTGGAGATGCTGGGTAGCCCTCAGCATTTGAGGG 1078
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Db 1093 CTTGCCCTCAGCTGGACCAAGGAGTCTGGAGATGCTGGGTAGCCCTCAGCATTTGAGGG 1152
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QY 1079 GAACCTGTTCCGCTCGGTGCCAAATATCCCTTCTTTTATGGGTTAAGGAAGGAGC 1138
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QY 1139 GAGAGATCAGATAGTGTGTTTTGTAATAATGTAATGTAATGTAATGTAATGTAATA 1198
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Db 1213 GAGAGATCAGATAGTGTGTTTTGTAATAATGTAATGTAATGTAATGTAATA 1272
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QY 1199 GGGCACCTGTTTCCAAAAA 1227
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## RESULT 2

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US-09-702-705-273
; Sequence 273, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
```

## RESULT 3

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US-09-736-457-273
; Sequence 273, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
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; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 273
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-702-705-273
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Query Match 35.9%; Score 442.6; DB 4; Length 472;

Best Local Similarity 98.5%; Pred. No. 3.1e-113; Indels 3; Gaps 2;

Matches 468; Conservative 0; Mismatches 4;

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Db 1 CTGGAGAAGGTGTGAGGGGAACCTCTGTGATGTACCGAGGCCAGGTTGTCTTTCTAC 60
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QY 499 TCGGAGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGAGGCA 558
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Db 61 TCGGAGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGAGGCA 120
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|
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QY 619 TTTGCCCTCTACGTGGGCTTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 678
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Db 181 TTTGCCCTCTACGTGGGCTTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 240
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QY 679 CTTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCAGTCTGTCTGTACATCTCAGAC 738
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Db 241 CTTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCAGTCTGTCTGTACATCTCAGAC 300
|
QY 739 TTTCTCAAAGCCCGACCCCAAGCACTGTCTGAAAGGAGGAGCTGGAAACGGAAGCCC 798
|
Db 301 TTTCTCAAAGCCCGACCCCAAGCACTGTCTGAAAGGAGGAGCTGGAAACGGAAGCCC 360
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QY 799 AGCCTGTCTCAGTCACTGACCTGGGGGAGGCTGACCAACCACTTTATGGGATACCCG 858
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Db 361 AGCCTGTCTCAGTCACTGACCTGGGGGAGGCTGACCAACCACT--ATGGATACCCG 417
|
QY 859 CACTCTTCTCTGTAGGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913
|
Db 418 CACTCTTCTCTGTAGGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472
|
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Db 121 CGACTCTGTGGAGTGGGACGGCTGCTCGACCCACAGTCCAGTTCCTTCTGTGGCC 180  
QY 619 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 678  
Db 181 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 240  
QY 679 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 738  
Db 241 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 300  
QY 739 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 798  
Db 301 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 360  
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Db 418 CACTCTCTCTCTGAGGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472  
RESULT 6  
US-09-589-184-273  
; Sequence 273, Application US/09589184  
; Patent No. 6686447  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fang, Gary  
; APPLICANT: Vedwick, Tom  
; APPLICANT: Carter, Darick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C8  
; CURRENT APPLICATION NUMBER: US/09/589,184  
; CURRENT FILING DATE: 2000-06-05  
; NUMBER OF SEQ ID NOS: 827  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-589-184-273

Query Match 35.9%; Score 442.6; DB 4; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3.1e-113;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;  
QY 439 CTGGAGAGGTGTGACGGGAAACCTGCTGTATGTACCGAGGCCAGGTGTCTTCTAC 498  
Db 1 CTGGAGAGGTGTGACGGGAAACCTGCTGTATGTACCGAGGCCAGGTGTCTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTGGAGTGGGACGGCTGCTGCGACCACTGCTGTGCTGTGGTGGCC 618  
Db 121 CGACTCTGTGGAGTGGGACGGCTGCTGCGACCACTGCTGTGCTGTGGTGGCC 180  
QY 619 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 678  
Db 181 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 240  
QY 679 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 738

Db 241 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 300  
QY 739 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 798  
Db 301 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 360  
QY 799 AGCCTGTCACTGAGTGGAGTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 858  
Db 361 AGCCTGTCACTGAGTGGAGTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 417  
QY 859 CACTCTCTCTCTGAGGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTCTCTCTGAGGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472  
RESULT 7  
US-09-658-824-273  
; Sequence 273, Application US/09658824  
; Patent No. 6746846  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fang, Gary  
; APPLICANT: Vedwick, Tom  
; APPLICANT: Carter, Darick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C11  
; CURRENT APPLICATION NUMBER: US/09/658,824  
; CURRENT FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 1788  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-658-824-273

Query Match 35.9%; Score 442.6; DB 4; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3.1e-113;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;  
QY 439 CTGGAGAGGTGTGACGGGAAACCTGCTGTATGTACCGAGGCCAGGTGTCTTCTAC 498  
Db 1 CTGGAGAGGTGTGACGGGAAACCTGCTGTATGTACCGAGGCCAGGTGTCTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTGGAGTGGGACGGCTGCTGCGACCACTGCTGTGCTGTGGTGGCC 618  
Db 121 CGACTCTGTGGAGTGGGACGGCTGCTGCGACCACTGCTGTGCTGTGGTGGCC 180  
QY 619 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 678  
Db 181 TTGCGCCTCTACGTGGGTACACCCGGGTGCTGTGATTAAACACCACTGGAGCGATGC 240  
QY 679 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 738  
Db 241 CTTGTTGGCCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 300  
QY 739 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 798  
Db 301 TTCTTCAAAGCCCGACCCCAAGCACTGTCTGAAGAGGAGGAGCTGGAACGGAAGCCC 360  
QY 799 AGCCTGTCACTGAGTGGAGTGGTGGCTGCCCTCACTGCTGTACATCTCAGAC 858

Db 361 AGCCTGTCACTGAGCTTGACCTT-GGGCGAGGCTGACCAACAACCACT--ATGGATACCCG 417  
QY 859 CACTCTTCTTCTTGAGCCGAGCCCGCCGAGGAGGAGCTGCTGTGAGTCCAG 913  
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Db 418 CACTCTCTCTCTGAGCCGAGCCCGCCGAGGAGGAGCTGCTGTGAGTCCAG 472

## RESULT 8

US-09-702-705-342  
; Sequence 342, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 342  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(472)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-702-705-342

Query Match 35.6%; Score 438.4; DB 4; Length 472;  
Best Local Similarity 97.9%; Pred. No. 4.6e-112;  
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 439 CTGGAGAAGGTGTGCGAGGGGAAACCTGCTGTGATGTACCGAGGCCAGGTTGTCTTCTAC 498  
Db 1 CTGGAGAAGGTGTGCGAGGGGAAACCTGCTGTGATGTACCGAGGCCAGGTTGTCTTCTAC 60  
QY TCGGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCGAGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCGAGCA 120  
QY 559 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 618  
Db 121 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCCGCTGTCTGATTACAAACACCACTGGAGCGATGTC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCCGCTGTCTGATTACAAACACCACTGGAGCGATGTC 240  
QY 679 CTGTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCGCTCACTGTCTGTACATCTCAGAC 738  
Db 241 CTGTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCGCTCACTGTCTGTACATCTCAGAC 300  
QY 739 TTCTTCAAAGCCGACCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 798  
Db 301 TTCTTCAAAGCCGACCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360  
QY 799 AGCCTGTCACTGAGCTTGACCTT-GGGCGAGGCTGACCAACAACCACT--ATGGATACCCG 858  
Db 361 AGCCTGTCACTGAGCTTGACCTT-GGGCGAGGCTGACCAACAACCACT--ATGGATACCCG 417  
QY 859 CACTCTTCTTCTTGAGCCGAGCCCGCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 913  
Db 418 CACTCTCTCTCTGAGCCGAGCCCGCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 472

## RESULT 9

US-09-736-457-342  
; Sequence 342, Application US/09736457  
; Patent No. 6509448  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; APPLICANT: Wang, Aijun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C15  
; CURRENT APPLICATION NUMBER: US/09/736,457  
; CURRENT FILING DATE: 2000-12-13  
; NUMBER OF SEQ ID NOS: 1864  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 342  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(472)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-736-457-342

Query Match 35.6%; Score 438.4; DB 4; Length 472;  
Best Local Similarity 97.9%; Pred. No. 4.6e-112;  
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 439 CTGGAGAAGGTGTGCGAGGGGAAACCTGCTGTGATGTACCGAGGCCAGGTTGTCTTCTAC 498  
Db 1 CTGGAGAAGGTGTGCGAGGGGAAACCTGCTGTGATGTACCGAGGCCAGGTTGTCTTCTAC 60  
QY TCGGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCGAGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCGAGCA 120  
QY 559 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 618  
Db 121 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCCGCTGTCTGATTACAAACACCACTGGAGCGATGTC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCCGCTGTCTGATTACAAACACCACTGGAGCGATGTC 240  
QY 679 CTGTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCGCTCACTGTCTGTACATCTCAGAC 738  
Db 241 CTGTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCGCTCACTGTCTGTACATCTCAGAC 300  
QY 739 TTCTTCAAAGCCGACCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 798  
Db 301 TTCTTCAAAGCCGACCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 360  
QY 799 AGCCTGTCACTGAGCTTGACCTTGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 858  
Db 361 AGCCTGTCACTGAGCTTGACCTTGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 417  
QY 859 CACTCTTCTTCTTGAGCCGAGCCCGCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 913  
Db 418 CACTCTCTCTCTGAGCCGAGCCCGCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 472

## RESULT 10

US-09-614-124B-342

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; Sequence 342, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(472)
; OTHER INFORMATION: n = A,T,C or G
US-09-614-124B-342
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Best Local Similarity 97.9%; Pred. No. 4.6e-112;
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;

QY 439 CTGGAGAAGGTGTGCAGGGGAAACCCCTGCTGTGATGTACCGAGGCCAGGTTGTCTTTCTAC 498
Db 1 CTGGAGAAGGTGTGCAGGGGAAACCCCTGCTGTGATGTACCGAGGCCAGGTTGTCTTTCTAC 60

QY 499 TCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCAGGCA 558
Db 61 TCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCAGGCA 120

QY 559 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCTTGGTGGCC 618
Db 121 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCTTGGTGGCC 180

QY 619 TTGGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGC 678
Db 181 TTGGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGC 240

QY 679 CTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738
Db 241 CTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300

QY 739 TTCTTCAAAGCCGACCCCAAGAGGAGGAGTCTGAAAGGAGGAGGAGTGGAAAGGAGCCC 798
Db 301 TTCTTCAAAGCCGACCCCAAGAGGAGGAGTCTGAAAGGAGGAGGAGTGGAAAGGAGCCC 360

QY 799 AGCCTGTCTACGTGAGTACCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858
Db 361 AGCCTGTCTACGTGAGTACCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCCG 417

QY 859 CACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGTCTGTGAGTCCAG 913
Db 418 CACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGTCTGTGAGTCCAG 472
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US-09-671-325-342
; Sequence 342, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
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; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(472)
; OTHER INFORMATION: n = A,T,C or G
US-09-671-325-342
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Query Match 35.6%; Score 438.4; DB 4; Length 472;
Best Local Similarity 97.9%; Pred. No. 4.6e-112;
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;

QY 439 CTGGAGAAGGTGTGCAGGGGAAACCCCTGCTGTGATGTACCGAGGCCAGGTTGTCTTTCTAC 498
Db 1 CTGGAGAAGGTGTGCAGGGGAAACCCCTGCTGTGATGTACCGAGGCCAGGTTGTCTTTCTAC 60

QY 499 TCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCAGGCA 558
Db 61 TCGGGACACTCTTCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTGCAGGCA 120

QY 559 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCTTGGTGGCC 618
Db 121 CGACTCTGTGGAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTTCTTCTTGGTGGCC 180

QY 619 TTGGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGC 678
Db 181 TTGGCCCTCTACGTGGGCTACACCCGCGTGTCTGATTACAAACACCACTGGAGCGATGC 240

QY 679 CTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738
Db 241 CTGTTGGCTCTCTGAGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300

QY 739 TTCTTCAAAGCCGACCCCAAGAGGAGGAGTCTGAAAGGAGGAGGAGTGGAAAGGAGCCC 798
Db 301 TTCTTCAAAGCCGACCCCAAGAGGAGGAGTCTGAAAGGAGGAGGAGTGGAAAGGAGCCC 360

QY 799 AGCCTGTCTACGTGAGTACCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858
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QY 859 CACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGTCTGTGAGTCCAG 913
Db 418 CACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGTCTGTGAGTCCAG 472
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US-09-589-184-342
; Sequence 342, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
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; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C8  
; CURRENT APPLICATION NUMBER: US/09/589,184  
; CURRENT FILING DATE: 2000-06-05  
; NUMBER OF SEQ ID NOS: 827  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 342  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(472)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-589-184-342

Query Match 35.6%; Score 438.4; DB 4; Length 472;  
Best Local Similarity 97.9%; Pred. No. 4.6e-112;  
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 439 CTGGAGAGGTGTCAGGGGAAACCTGCTGATGTACCCAGGCCAGGTTGTCTTTCTAC 498  
Db 1 CTGGAGAGGTGTCAGGGGAAACCTGCTGATGTACCCAGGCCAGGTTGTCTTTCTAC 60  
QY 499 TCGGGACACTCTTCCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTTGGAAGTGGGCAACCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 618  
Db 121 CGACTCTGTTGGAAGTGGGCAACCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 240  
QY 679 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 738  
Db 241 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 800  
QY 739 TTCTTCAAGCCCGACCCCGACAGCACTGTCTGAAGGAGGAGGAGCTGGAACCGAAGCCC 798  
Db 301 TTCTTCAAGCCCGACCCCGACAGCACTGTCTGAAGGAGGAGGAGCTGGAACCGAAGCCC 860  
QY 799 AGCCTGTCACTGAGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCCTGTCACTGAGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 917  
QY 859 CACTCTTCTCTCTGAGCGCGACCCCGCGAGGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTTCTCTCTGAGCGCGACCCCGCGAGGCTGCTGTGAGTCCAG 472

RESULT 13  
US-09-589-184-342  
; Sequence 342, Application US/09658824  
; Patent No. 6746846  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C11  
; CURRENT APPLICATION NUMBER: US/09/658,824  
; CURRENT FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 1788  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 342  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(472)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-658-824-342

Query Match 35.6%; Score 438.4; DB 4; Length 472;  
Best Local Similarity 97.9%; Pred. No. 4.6e-112;  
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
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Db 1 CTGGAGAGGTGTCAGGGGAAACCTGCTGATGTACCCAGGCCAGGTTGTCTTTCTAC 60  
QY 499 TCGGGACACTCTTCCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCCCTTTGGGATGTACTGCATGGTGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTTGGAAGTGGGCAACCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 618  
Db 121 CGACTCTGTTGGAAGTGGGCAACCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 240  
QY 679 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 738  
Db 241 TTGGCCCTCTACGTGGGCTACACCGCGCTGCTCGACCCACAGTCCAGTTCTTCTGGTGCC 800  
QY 739 TTCTTCAAGCCCGACCCCGACAGCACTGTCTGAAGGAGGAGGAGCTGGAACCGAAGCCC 798  
Db 301 TTCTTCAAGCCCGACCCCGACAGCACTGTCTGAAGGAGGAGGAGCTGGAACCGAAGCCC 860  
QY 799 AGCCTGTCACTGAGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCCTGTCACTGAGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 917  
QY 859 CACTCTTCTCTCTGAGCGCGACCCCGCGAGGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTTCTCTCTGAGCGCGACCCCGCGAGGCTGCTGTGAGTCCAG 472

RESULT 14  
US-09-702-705-1590  
; Sequence 1590, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1590  
; LENGTH: 434  
; TYPE: DNA

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(434)
; OTHER INFORMATION: n = A,T,C or G
US-09-702-705-1590

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Best Local Similarity 97.9%; Pred. No. 6.1e-102;
Matches 428; Conservative 0; Mismatches 6; Indels 3; Gaps 2;

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Db 1 CTGGAGAAAGGTGTGACGGGGAACCCCTGCTGATGTACCGAGGCCAGGTGCTTTCTAC 60

QY 499 TCGGGACACTCTTCTTTGGGATGTACTGATGGTGTCTTGGCGCTGTATGTGCAAGGCA 558
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGATGGTGTCTTGGCGCTGTATGTGCAAGGCA 120

QY 559 CGACTCTGTGGAAGTGGGACCGGCTGCTCGACCCACAGTCCAGTTCCTTGGTGGCC 618
Db 121 CGACTCTGTGGAAGTGGGACCGGCTGCTCGACCCACAGTCCAGTTCCTTGGTGGCC 180

QY 619 TTTGCCCTCTACGTGGGCTACACCCGCGTCTGATTACAAACACCACTGGAGCGATGTC 678
Db 181 TTTGCCCTCTACGTGGGCTACACCCGCGTCTGATTACAAACACCACTGGAGCGATGTC 240

QY 679 CTTGTTGGCCTCTCTGACGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738
Db 241 CTTGTTGGCCTCTCTGACGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300

QY 739 TTCTTCAAAGCCGACCCCAAGCACTGTCTGAAGGAGGAGAGCTGGAACGGAAGCCC 798
Db 301 TTCTTCAAAGCCGACCCCAAGCACTGTCTGAAGGAGGAGAGCTGGAACGGAAGCCC 360

QY 799 AGCCTGTCACTGACGTGACCTTGGGGGAGGCTGACCAACCACTTATGGGATACCCG 858
Db 361 AGCCTGTCACTGACGTGACCTTGGGGGAGGCTGACCAACCACTTATGGGATACCCG 417

QY 859 CACTCTTCTCTCTGAGG 875
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; OTHER INFORMATION: n = A,T,C or G
US-09-736-457-1590

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Best Local Similarity 97.9%; Pred. No. 6.1e-102;
Matches 428; Conservative 0; Mismatches 6; Indels 3; Gaps 2;

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QY 679 CTTGTTGGCCTCTCTGACGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738
Db 241 CTTGTTGGCCTCTCTGACGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300

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QY 799 AGCCTGTCACTGACGTGACCTTGGGGGAGGCTGACCAACCACTTATGGGATACCCG 858
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QY 859 CACTCTTCTCTCTGAGG 875
Db 418 CACTCTTCTCTCTGAGG 434

; OTHER INFORMATION: n = A,T,C or G
US-09-736-457-1590

; Sequence 1590, Application US/09736457
; Patent No. 650944B
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1590
; LENGTH: 434
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(434)
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 11, 2005, 10:33:31 ; Search time 1076.79 Seconds  
(without alignments)  
9461.850 Million cell updates/sec

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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 9794790 seqs, 413490567 residues  
Total number of hits satisfying chosen parameters: 19589580

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1117.4	90.7	1301	24	US-10-491-467-101
4	442.6	35.9	472	9	US-09-736-457-273
5	442.6	35.9	472	9	US-09-902-941-273

6	442.6	35.9	472	9	US-09-849-626-273
7	442.6	35.9	472	10	US-09-476-300-273
8	442.6	35.9	472	15	US-10-017-754-273
9	442.6	35.9	472	17	US-10-113-872-273
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17	438.4	35.6	472	18	US-10-283-017-342
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27	266.4	21.6	289	17	US-10-029-386-18564
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ALIGNMENTS

RESULT 1  
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; Sequence 25, Application US/10647426  
; Publication No. US20040110197A1  
; GENERAL INFORMATION:  
; APPLICANT: Skinner, Michael K.  
; APPLICANT: Patton, Jodi L.  
; TITLE OF INVENTION: A METHOD OF DETERMINING TUMOR CHARACTERISTICS BY  
; TITLE OF INVENTION: DETERMINING ABNORMAL COPY NUMBER OR EXPRESSION LEVEL OF  
; TITLE OF INVENTION: LIPID-ASSOCIATED GENES  
; FILE REFERENCE: PATRICK EAGLEMAN: EMBOL-X 252/124  
; CURRENT APPLICATION NUMBER: US/10/647,426  
; PRIOR FILING DATE: 2003-08-26  
; PRIOR APPLICATION NUMBER: US/09/676,052  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 1269  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: gene  
; LOCATION: (1)..(1269)  
; OTHER INFORMATION: The sequence of the cDNA coding for Phosphatidic  
; OTHER INFORMATION: Acid Phosphatase type 2c  
US-10-647-426-25

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Query Match      97.4%; Score 1198; DB 20; Length 1269;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1224; Conservative 0; Mismatches 5; Indels 3; Gaps 2;

QY 1 ACCATGACGGAGGTGGGTCTTCGTGCTGCTCGACGTGCTGCTACTGGTCGCTCC 60
DB 41 ACCATGACGGAGGTGGGTCTTCGTGCTGCTCGACGTGCTGCTACTGGTCGCTCC 100
QY 61 CTGCCCTTCGCTATCTCTGACGTGGTGAACGCCCGGTACAAGCGAGGATTTTACTCGGG 120
DB 101 CTGCCCTTCGCTATCTCTGACGTGGTGAACGCCCGGTACAAGCGAGGATTTTACTCGGG 160
QY 121 GATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCAACCGGGCTCATGGCTGGG 180
DB 161 GATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCAACCGGGCTCATGGCTGGG 220
QY 181 GTCAACCATCAAGCCACCGTCACTCTGCTCGCGCGGGAAGCCTACCTGGGTATACACA 240
DB 221 GTCAACCATCAAGCCACCGTCACTCTGCTCGCGCGGGAAGCCTACCTGGGTATACACA 280
QY 241 GACCGGCTCTATTCTCGCTGGACTTCAACAACACTAGCTGGCTGCTGTATACAAGTGTCTG 300
DB 281 GACCGGCTCTATTCTCGCTGGACTTCAACAACACTAGCTGGCTGCTGTATACAAGTGTCTG 340
QY 301 GGGACCTTCTGTTTGGGGTGGCGTGAGCCAGTCTCTGACAGACCTGGCCAAAGTACATG 360
DB 341 GGGACCTTCTGTTTGGGGTGGCGTGAGCCAGTCTCTGACAGACCTGGCCAAAGTACATG 400
QY 361 ATTGGGCGTCTGAAGCCCAACTTCTTAGCCGTCTGCGACCCCGACTGGAGCGGGTCAAC 420
DB 401 ATTGGGCGTCTGAAGCCCAACTTCTTAGCCGTCTGCGACCCCGACTGGAGCGGGTCAAC 460
QY 421 TGCTCGGTCTATGTGACGTGGAGAGGTGTGAGGGGAAACCTCTGATGTCAACCGAG 480
DB 461 TGCTCGGTCTATGTGACGTGGAGAGGTGTGAGGGGAAACCTCTGATGTCAACCGAG 520
QY 481 GCCAGTGTCTTTCTACTCGGACACTCTTCTTTGGGATGTACTGATGTGTTCTTG 540
DB 521 GCCAGTGTCTTTCTACTCGGACACTCTTCTTTGGGATGTACTGATGTGTTCTTG 580
QY 541 GCGCTCTATGTGACGACGACTCTGTGGAAGTGGGACGGTGTGCGACCCACAGTC 600
DB 581 GCGCTCTATGTGACGACGACTCTGTGGAAGTGGGACGGTGTGCGACCCACAGTC 640
QY 601 CAGTTCTTCTGCTGGCTTTGCCCTCTACGTGGGTACACCCGCGTGTCTGATTACAAA 660
DB 641 CAGTTCTTCTGCTGGCTTTGCCCTCTACGTGGGTACACCCGCGTGTCTGATTACAAA 700
QY 661 CACCACCTGGAGGATGTCCTTGTGGCTCTGACGGGGCACTGGTGGCTGCCCTCACT 720
DB 701 CACCACCTGGAGGATGTCCTTGTGGCTCTGACGGGGCACTGGTGGCTGCCCTCACT 760
QY 721 GTCTGTCTACATCTCAGACTTCTTCAAAGCCGACCCCAACAGCACTGTCTGAAGGAGGAG 780
DB 761 GTCTGTCTACATCTCAGACTTCTTCAAAGCCGACCCCAACAGCACTGTCTGAAGGAGGAG 820
QY 781 GAGCTGGAACGGAAGCCAGCCTGTCACTGACGTTGACCCCT -GGGCGAGGCTGACACAA 840
DB 821 GAGCTGGAACGGAAGCCAGCCTGTCACTGACGTTGACCCCT -GGGCGAGGCTGACACAA 879
QY 841 CCACCTTATGGGATACCGGCACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGCT 900
DB 880 CCACCT--ATGGATACCGGCACTCTTCTCTGAGGCGGACCCCGCCAGGAGGAGCT 937
QY 901 GCTGTGAGTCCAGCTGATGCCCCACCCAGGTGGTCCCTCCAGCCTGTTAGGCACCTGAGGG 960
DB 938 GCTGTGAGTCCAGCTGATGCCCAACCCAGGTGGTCCCTCCAGCCTGTTAGGCACCTGAGGG 997
QY 961 TTCTGACGGGCTCCAGGAACCCCTGGGCTGATGGGAGCAGTGAACGGTTCGCTGCCCC 1020
DB 998 TTCTGACGGGCTCCAGGAACCCCTGGGCTGATGGGAGCAGTGAACGGTTCGCTGCCCC 1057
QY 1021 TGCCCTGCACCTGGACACGAGGTCTGGAGATGCTGGGTAGCCCTCAGCATTTTGGAGGGA 1080
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DB 1058 TGCCCTGCACCTGACGAGGTCTGGAGATGCTGGTACGCTCAGCATTTTGGAGGGA 1117
QY 1081 ACTGTTCCCGTCCGTCGCCAAATATCCCTTCTTTTATGGGTTAAGGAAGGGACCGA 1140
DB 1118 ACTGTTCCCGTCCGTCGCCAAATATCCCTTCTTTTATGGGTTAAGGAAGGGACCGA 1177
QY 1141 GAGATCAGATAGTCTGTTTGTAAATGTAAATGTATATGTGTTTATAGTAAATAGG 1200
DB 1178 GAGATCAGATAGTCTGTTTGTAAATGTAAATGTATATGTGTTTATAGTAAATAGG 1237
QY 1201 GCACCTGTTTCAAAAAAATTTTTTGTAAATGTATATGTGTTTATAGTAAATAGG 1232
DB 1238 GCACCTGTTTCAAAAAAATTTTTTGTAAATGTATATGTGTTTATAGTAAATAGG 1269

RESULT 2
US-10-765-700-117
; Sequence 117, Application US/10765700
; Publication No. US20050130171A1
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne P.
; APPLICANT: Tingley, Debra W.
; APPLICANT: Edwards, Carla M.
; TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
; FILE REFERENCE: PA-0024 US
; CURRENT APPLICATION NUMBER: 2004-01-26
; PRIOR FILING DATE: 2004-01-26
; PRIOR APPLICATION NUMBER: US/09/566.921
; PRIOR FILING DATE: PRIOR FILING DATE: 2000-05-05
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PERL Program
; SEQ ID NO 117
; LENGTH: 1303
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 202234.2
US-10-765-700-117

Query Match      94.4%; Score 1163; DB 24; Length 1303;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1214; Conservative 0; Mismatches 10; Indels 5; Gaps 4;

QY 1 ACCATGACGAGGTGGGTCTTCGTGCTGCTCGACGTGCTGCTACTGGTCGCTCC 60
DB 76 ACCATGACGAGGTGGGTCTTCGTGCTGCTCGACGTGCTGCTACTGGTCGCTCC 135
QY 61 CTGCCCTTCGCTATCTGACGTGGTGAACGCCCGGTACAAGCGAGGATTTTACTCGGG 120
DB 136 CTGCCCTTCGCTATCTGACGTGGTGAACGCCCGGTACAAGCGAGGATTTTACTCGGG 195
QY 121 GATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCGGGCTCATGGCTGG 180
DB 196 GATGACTCCATCCGGTACCCCTACCGTCCAGATACCATCACCGGGCTCATGGCTGG 255
QY 181 GTCAACCATCAAGCCACCGTCACTCTGCTCGCGGGGAAGCCCTACCTGGTGTACACA 240
DB 256 GTCAACCATCAAGCCACCGTCACTCTGCTCGCGGGGAAGCCCTACCTGGTGTACACA 315
QY 241 GACCGGCTCTATTCTGCTCGGACTTCAACAACTAGTGGCTGCTGTATACAAAGTGTG 300
DB 316 GACCGGCTCTATTCTGCTCGGACTTCAACAACTAGTGGCTGCTGTATACAAAGTGTG 375
QY 301 GGGACCTTCTGTTTGGGGTCCCGTGGAGCAGTCTCTGACAGACTGCGCAAGTACATG 360
DB 376 GGGACCTTCTGTTTGGGGTCCCGTGGAGCAGTCTCTGACAGACTGCGCAAGTACATG 435
QY 361 ATTGGGCGTCTGAAGCCCAACTTCTTAGCCGTCTGCGACCCCGACTGGAGCGGGTCAAC 420
DB 436 ATTGGGCGTCTGAGGCCCAACTTCTTAGCCGTCTGCGACCCCGACTGGAGCGGGTCAAC 495
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Qy 421 TGCTCGTCTATGTGTCAGCTGGAGAGTGTGACGGGAAACCTGCTGATGTCAACGAG 480
Db |||||
Qy 496 TGCTCGTCTATGTGTCAGCTGGAGAGTGTGACGGGAAACCTGCTGATGTCAACGAG 555
Db |||||
Qy 481 GCCAGTGTCTTCTACTCGGACACTCTTCTCTTTGGGATGACTGCATGTTGTTT 540
Db |||||
Qy 556 GCCAGTGTCTTCTACTCGGACACTCTTCTCTTTGGGATGACTGCATGTTGTTT 615
Db |||||
Qy 541 GCGCTGTATGTGACGACGACTCTGTTGGAAGTGGGACGGCTGTCGACCCACAGTC 600
Db |||||
Qy 616 GTGCTGTATGTGACGACGACTCTGTTGGAAGTGGGACGGCTGTCGACCCACAGTC 675
Db |||||
Qy 601 CAGTCTTCTGCTGGCTTTGCGCTCTAGCTGGGCTACACCGCGGTGCTGATTACAAA 660
Db |||||
Qy 676 CAGTCTTCTGCTGGCTTTGCGCTCTAGCTGGGCTACACCGCGGTGCTGATTACAAA 735
Db |||||
Qy 661 CACACTGGAGCGATGCTTGTGCTGCTGCTGAGGGGCACTGTGTGCTGCTCACT 720
Db |||||
Qy 736 CACACTGGAGCGATGCTTGTGCTGCTGCTGAGGGGCACTGTGTGCTGCTCACT 795
Db |||||
Qy 721 GTCTGTACATCTCAGACTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGG 780
Db |||||
Qy 796 GTCTGTACATCTCAGACTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGG 855
Db |||||
Qy 781 GAGCTGGAACGGAAGCCAGCTGTCTACTGACGTTGACCTGGGGGAGGCTGACACAA 840
Db |||||
Qy 856 GAGCTGGAACGGAAGCCAGCTGTCTACTGACGTTGACCT-GGGCGAGGCTGACACAA 914
Db |||||
Qy 841 CCACTTATGGATACCGGCACTCTTCTTCTGAGGCGGACCCCGCCAGGAGGAGCT 900
Db |||||
Qy 915 CCACT--ATGGATACCGGCACTCTCTCTCTGAGGCGGACCCCGCCAGGAGGAGCT 972
Db |||||
Qy 901 GCTGTGAGTCCAGTATGATCCCAAGCCGAGGCTGCTCCAG-CCTGTGTAGGCACTGAGG 959
Db |||||
Qy 973 ACTGTGAGTCCAGTATGATCCCAAGCCGAGGCTGCTCCAG-CCTGTGTAGGCACTGAGG 1032
Db |||||
Qy 960 GTTCTGACGGGCTCAGGAACCTGGGCTGATGGGAGCAGTGAGC-GGTTCGCTGCC 1018
Db |||||
Qy 1033 GCTCTGACGGGCTCAGGAACCTGGGCTGATGGGAGCAGTGAGGCGGCTCGCTGCC 1092
Db |||||
Qy 1019 CTTGCCCTGCACTGAGCAGGAGTCTGGAGATGCTGGGTAGGCTCAGCATTTGAGGG 1078
Db |||||
Qy 1093 CTTGCCCTGCACTGAGCAGGAGTCTGGAGATGCTGGGTAGGCTCAGCATTTGAGGG 1152
Db |||||
Qy 1079 GAACCTGTTCCGCTGCTGCTCCCAATATCCCTCTTTTATGGGTGATAGGAGGAGC 1138
Db |||||
Qy 1153 GAACCTGTTCCGCTGCTGCTCCCAATATCCCTCTTTTATGGGTGATAGGAGGAGC 1212
Db |||||
Qy 1139 GAGAGATCAGATAGTGTCTGTTTGTAAATGTAATGTAATGTAATGTAATGTAATGTA 1198
Db |||||
Qy 1213 GAGAGATCAGATAGTGTCTGTTTGTAAATGTAATGTAATGTAATGTAATGTAATGTA 1272
Db |||||
Qy 1199 GGGACCTGTTTCAAAAAA 1227
Db |||||
Qy 1273 GGGACCTGTTTCAAAAAA 1301
Db |||||
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## RESULT 3

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US-10-491-467-101
; Sequence 101, Application US/10491467
; Publication No. US2005018658A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION; BANDMAN, Olga;
; APPLICANT: BAUGHN, Mariah R.; BECHA, Shanya D.;
; APPLICANT: BOROWSKY, Mark L.; DUGGAN, Brendan M.;
; APPLICANT: EMERLING, Brooke M.; FORSYTHE, Ian J.;
; APPLICANT: GANDHI, Ameena R.; GORVAD, Ann E.;
; APPLICANT: GRIFFIN, Jennifer A.; GURURAJAN, Rajagopal;
; APPLICANT: HAFALIA, April J.A.; KHAN, Farrah A.;
; APPLICANT: LAL, Preeti G.; LEE, Ernestine A.;
; APPLICANT: LEE, Soo Yeun; LINDQUIST, Erika A.;
; APPLICANT: LU, Dying Aina M.; LU, Yan;
; APPLICANT: MARQUIS, Joseph P.; NGUYEN, Dannel B.;
```

```
; APPLICANT: ARVIZU, Chandra S.; RAMKUMAR, Jayalaxmi;
; APPLICANT: RECIPON, Shirley A.; RICHARDSON, Thomas W.;
; APPLICANT: SHARNAKAR, Anita; TANG, Y. Tom;
; APPLICANT: THORNHALL, Michael B.; TRAN, Uyen K.;
; APPLICANT: CHAWLA, Narinder K.; WARREN, Bridget A.;
; APPLICANT: YANG, Juming; YAO, Monique G.;
; APPLICANT: YUE, Henry; ZEBARJADIAN, Veganeh
; TITLE OF INVENTION: KINASES AND PHOSPHATASES
; FILE REFERENCE: PF-1244 USN
; CURRENT APPLICATION NUMBER: US/10/491,467
; CURRENT FILING DATE: 2004-03-31
; PRIOR APPLICATION NUMBER: PCT/US02/33723
; PRIOR FILING DATE: 2002-10-17
; PRIOR APPLICATION NUMBER: US 60/345,474
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/343,910
; PRIOR FILING DATE: 2001-11-02
; PRIOR APPLICATION NUMBER: US 60/333,098
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/332,424
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: US 60/334,288
; PRIOR FILING DATE: 2001-11-30
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: PERL Program
; SEQ ID NO 101
; LENGTH: 1301
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 7503176CB1
; US-10-491-467-101
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Query Match 90.7%; Score 1117.4; DB 24; Length 1301;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1175; Conservative 0; Mismatches 21; Indels 5; Gaps 4;

Qy 34 GAGTGTCTGTCTTACTGTGCTGCTCCCTGCTGCTATCTCTGAGCTGGTGAAGCC 93
Db |||||
Qy 33 GTCGCGGGACCATGATGAGCGGACCTCCCTGCTGCTATCTCTGAGCTGGTGAAGCC 92
Db |||||
Qy 94 CCGTACAAGCGAGGATTTTACTGCGGGGATGACTCATCGGTACCCCTACCGTCCAGAT 153
Db |||||
Qy 93 CCGTACAAGCGAGGATTTTACTGCGGGGATGACTCATCGGTACCCCTACCGTCCAGAT 152
Db |||||
Qy 154 ACCATCACCCACGGGCTCATGCTGGGGTCAACATCACGGCCACCGTCACTTGTCTCG 213
Db |||||
Qy 153 ACCATCACCCACGGGCTCATGCTGGGGTCAACATCACGGCCACCGTCACTTGTCTCG 212
Db |||||
Qy 214 GCGGGGAAGCCCTACCTGCTGTACACAGACGGCTCTATCTCTGCTGGACTTCAACAC 273
Db |||||
Qy 213 GCGGGGAAGCCCTACCTGCTGTACACAGACGGCTCTATCTCTGCTGGACTTCAACAC 272
Db |||||
Qy 274 TACGTGGCTGTGTATACAAAGGTGCTGGGACCTCTCTGTTGGGGCTGCGGTGAGCCAG 333
Db |||||
Qy 273 TACGTGGCTGTGTATACAAAGGTGCTGGGACCTCTCTGTTGGGGCTGCGGTGAGCCAG 332
Db |||||
Qy 334 TCTCTGACAGACTGCGCCAAAGTACATGATTTGGGCGTCTGAAGCCCAACTTCTCTAGCCGTC 393
Db |||||
Qy 333 TCTCTGACAGACTGCGCCAAAGTACATGATTTGGGCGTCTGAGGGCCCAACTTCTCTAGCCGTC 392
Db |||||
Qy 394 TGGGACCCGACTGGAGCCGGGTCAACTGCTGGTCTATGTGTGAGCTGGAGAGGTGTGC 453
Db |||||
Qy 393 TGGGACCCGACTGGAGCCGGGTCAACTGCTGGTCTATGTGTGAGCTGGAGAGGTGTGC 452
Db |||||
Qy 454 AGGGGAAACCCCTGCTCATGTGTCACCGAGGCGAGGTGCTCTTTCTACTCGGACACTCTTCC 513
Db |||||
Qy 453 AGGGGAAACCCCTGCTCATGTGTCACCGAGGCGAGGTGCTCTTTCTACTCGGACACTCTTCC 512
Db |||||
Qy 514 TTTGGGATGTACTGCAATGTTCTTTGGGCGTGTATGTGTGAGGACGACTCTGTGTGAAG 573
Db |||||
Qy 513 TTTGGGATGTACTGCAATGTTCTTTGGGCGTGTATGTGTGAGGACGACTCTGTGTGAAG 572
Db |||||
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Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;

QY 439 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 498  
DB 1 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 558  
DB 61 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 120  
QY 559 CGACTCTGTGGAGTGGGACCGCTCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 618  
DB 121 CGACTCTGTGGAGTGGGACCGCTCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 678  
DB 181 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 240  
QY 679 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 738  
DB 241 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 300  
QY 739 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 798  
DB 301 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 360  
QY 799 AGCTGTCACTGAGTTGACCCCTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
DB 361 AGCTGTCACTGAGTTGACCCCTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913  
DB 418 CACTCTTCTTCTGAGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472

## RESULT 6

US-09-849-626-273  
; Sequence 273, Application US/09849626  
; Publication No. US20020197669A1  
; GENERAL INFORMATION:  
; APPLICANT: Bangur, Chaitanya  
; APPLICANT: Fanger, Gary  
; APPLICANT: Wang, Aijun  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Switzer, Anne  
; APPLICANT: McNeill, Patricia  
; APPLICANT: Clapper, Jonathan  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C16  
; CURRENT APPLICATION NUMBER: US/09/849,626  
; CURRENT FILING DATE: 2001-05-03  
; NUMBER OF SEQ ID NOS: 1926  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-849-626-273

Query Match 35.9%; Score 442.6; DB 9; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3e-123;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;

QY 439 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 498  
DB 1 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 558  
DB 61 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 120  
QY 559 CGACTCTGTGGAGTGGGACCGCTCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 618

DB 121 CGACTCTGTTGGAAGTGGGACCGCTGCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 678  
DB 181 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 240  
QY 679 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 738  
DB 241 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 300  
QY 739 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 798  
DB 301 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 360  
QY 799 AGCTGTCACTGAGTTGACCCCTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
DB 361 AGCTGTCACTGAGTTGACCCCTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913  
DB 418 CACTCTTCTTCTGAGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472

## RESULT 7

US-09-476-300-273  
; Sequence 273, Application US/09476300  
; Publication No. US20030125245A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C3  
; CURRENT APPLICATION NUMBER: US/09/476,300  
; CURRENT FILING DATE: 1999-12-30  
; NUMBER OF SEQ ID NOS: 785  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-476-300-273

Query Match 35.9%; Score 442.6; DB 10; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3e-123;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;

QY 439 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 498  
DB 1 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 558  
DB 61 TCGGGACACTCTTCTTTGGGATGTAATGATGTTCTTTGGCGCTGTATGTGAGGCA 120  
QY 559 CGACTCTGTGGAGTGGGACCGCTCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 618  
DB 121 CGACTCTGTGGAGTGGGACCGCTCTGCGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 678  
DB 181 TTTGGCCCTCTACGTTGGGCTACACCGCGTGTCTGATTACAAACACCACTGGAGGATGC 240  
QY 679 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 738  
DB 241 CTGTTGGCTCTCTGACAGGGGCACTGGTGGCTGCTCTGCTACATCTCAGAC 300  
QY 739 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 798  
DB 301 TTTCTTCAAGCCCGACCCACAGCACTGTCTGAAGGAGGAGGCTGGAAACGGAAGCCC 360  
QY 799 AGCTGTCACTGAGTTGACCCCTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858

Db 361 AGCCTGCTCACTGACGTTGACCTT-GGGCGAGGCTGACCAACCACT--ATGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGCGCGGACCCCGCCAGGAGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTCTCTCTGAGCGCGGACCCCGCCAGGAGCTGCTGTGAGTCCAG 472

## RESULT 8

US-10-017-754-273  
; Sequence 273, Application US/10017754  
; Publication No. US20030054363A1  
; GENERAL INFORMATION:  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Watanabe, Yoshihiro  
; APPLICANT: Johnson, Jeffrey C.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Marnerakis, Margarita  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: McNabb, Andria  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.478C18  
; CURRENT APPLICATION NUMBER: US/10/017,754  
; NUMBER OF SEQ ID NOS: 2004  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-017-754-273

Query Match 35.9%; Score 442.6; DB 15; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3e-123;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;  
QY 439 CTGGAGAAGGTGTCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGCTTTCTAC 498  
Db 1 CTGGAGAAGGTGTCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTGGAAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 618  
Db 121 CGACTCTGTGGAAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCCGGTGTCTGATTACAAACCACTGGAGCGATGTC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCCGGTGTCTGATTACAAACCACTGGAGCGATGTC 240  
QY 679 CTGTGTTGGCCCTCTGAGGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738  
Db 241 CTGTGTTGGCCCTCTGAGGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300  
QY 739 TTCTTTCAAAGCCGACCCCGCCAGGAGGAGCTGGAACCGAAGCCC 798  
Db 301 TTCTTTCAAAGCCGACCCCGCCAGGAGGAGCTGGAACCGAAGCCC 360  
QY 799 AGCCTGCTCACTGAGCTGACCCCGGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCCTGCTCACTGAGCTTGAACCTT-GGGCGAGGCTGACCAACCACT--ATGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGCGCGGACCCCGCCAGGAGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTCTCTCTGAGCGCGGACCCCGCCAGGAGCTGCTGTGAGTCCAG 472

## RESULT 9

US-10-113-872-273  
; Sequence 273, Application US/10113872  
; Publication No. US20030170255A1  
; GENERAL INFORMATION:  
; APPLICANT: Watanabe, Yoshihiro  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Sleath, Paul R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Fanger, Gary R.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.478C19  
; CURRENT APPLICATION NUMBER: US/10/113,872  
; CURRENT FILING DATE: 2002-03-28  
; NUMBER OF SEQ ID NOS: 2011  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 273  
; LENGTH: 472  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-113-872-273

Query Match 35.9%; Score 442.6; DB 17; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3e-123;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;  
QY 439 CTGGAGAAGGTGTCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGCTTTCTAC 498  
Db 1 CTGGAGAAGGTGTCAGGGGAAACCTGCTGATGTACCGAGGCCAGGTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTGGGATGTACTGATGTCTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTGGAAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 618  
Db 121 CGACTCTGTGGAAAGTGGGCACGGCTGCTGCGACCCACAGTCCAGTCTTCTGTTGGCC 180  
QY 619 TTGGCCCTCTACGTGGGCTACACCCGGTGTCTGATTACAAACCACTGGAGCGATGTC 678  
Db 181 TTGGCCCTCTACGTGGGCTACACCCGGTGTCTGATTACAAACCACTGGAGCGATGTC 240  
QY 679 CTGTGTTGGCCCTCTGAGGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 738  
Db 241 CTGTGTTGGCCCTCTGAGGGGGCACTGGTGGCTGCCCTCACTGTCTGCTACATCTCAGAC 300  
QY 739 TTCTTTCAAAGCCGACCCCGCCAGGAGGAGCTGGAACCGAAGCCC 798  
Db 301 TTCTTTCAAAGCCGACCCCGCCAGGAGGAGCTGGAACCGAAGCCC 360  
QY 799 AGCCTGCTCACTGAGCTGACCCCGGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCCTGCTCACTGAGCTTGAACCTT-GGGCGAGGCTGACCAACCACT--ATGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGCGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTCTCTCTGAGCGCGGACCCCGCCAGGAGCTGCTGTGAGTCCAG 472

## RESULT 10

US-10-283-017-273  
; Sequence 273, Application US/10283017  
; Publication No. US20030211510A1  
; GENERAL INFORMATION:  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Watanabe, Yoshihiro  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Sleath, Paul R.

APPLICANT: Johnson, Jeffrey C.  
APPLICANT: Retter, Marc W.  
APPLICANT: Durham, Margarita  
APPLICANT: Carter, Darrick  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: McNabb, Andria  
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C20  
CURRENT APPLICATION NUMBER: US/10/283.017  
CURRENT FILING DATE: 2002-10-28  
NUMBER OF SEQ ID NOS: 2157  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 273  
LENGTH: 472  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-283-017-273

Query Match 35.9%; Score 442.6; DB 18; Length 472;  
Best Local Similarity 98.5%; Pred. No. 3e-123;  
Matches 468; Conservative 0; Mismatches 4; Indels 3; Gaps 2;  
QY 439 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTCTACCGAGGCCAGGTTGCTTTCTAC 498  
Db 1 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTCTACCGAGGCCAGGTTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTACTGATGTTCTTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGATGTTCTTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTTGGAAGTGGGACGGCTCTCGGACCCACAGTCCAGTTCTTCTGGTGCC 618  
Db 121 CGACTCTGTTGGAAGTGGGACGGCTCTCGGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTGTCCTCTACGTGGGCTACACCGCGTGTCTGATTACAAACACCACTCGAGCGATGC 678  
Db 181 TTGTCCTCTACGTGGGCTACACCGCGTGTCTGATTACAAACACCACTCGAGCGATGC 240  
QY 679 CTGTTGGCCCTCTCGAGGGGACCTGGTGCGCTGCTCTACTGTCTGCTACATCTCAGAC 738  
Db 241 CTGTTGGCCCTCTCGAGGGGACCTGGTGCGCTGCTCTACTGTCTGCTACATCTCAGAC 300  
QY 739 TTCTTCAAGCCCGACCCACAGCACTGTCTGAGGAGGAGGCTGGAAACGGAAGCCC 798  
Db 301 TTCTTCAAGCCCGACCCACAGCACTGTCTGAGGAGGAGGCTGGAAACGGAAGCCC 360  
QY 799 AGCTGTCTACGTGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCTGTCTACGTGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGGCGGACCCCGCCAGGCGAGGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTTCTTCTGAGGCGGACCCCGCCAGGCGAGGCTGCTGTGAGTCCAG 472

RESULT 11  
US-09-736-457-342  
Sequence 342, Application US/09736457  
Patent No. US20020168637A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary  
APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
APPLICANT: Fan, Liqun  
APPLICANT: Wang, Aijun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C15  
CURRENT APPLICATION NUMBER: US/09/736.457  
CURRENT FILING DATE: 2000-12-13  
NUMBER OF SEQ ID NOS: 1864  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 342  
LENGTH: 472  
TYPE: DNA  
ORGANISM: Homo sapien  
NAME/KEY: misc feature  
LOCATION: (1)-(472)  
OTHER INFORMATION: n = A, T, C or G  
US-09-736-457-342

Query Match 35.6%; Score 438.4; DB 9; Length 472;  
Best Local Similarity 97.9%; Pred. No. 5.6e-122;  
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;  
QY 439 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTCTACCGAGGCCAGGTTGCTTTCTAC 498  
Db 1 CTGAGAGGTTGTCAGGGGAAACCCCTGCTGATGTCTACCGAGGCCAGGTTGCTTTCTAC 60  
QY 499 TCGGGACACTCTTCTTTGGGATGTACTGATGTTCTTTGGCGCTGTATGTCAGGCA 558  
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGATGTTCTTTGGCGCTGTATGTCAGGCA 120  
QY 559 CGACTCTGTTGGAAGTGGGACGGCTCTCGGACCCACAGTCCAGTTCTTCTGGTGCC 618  
Db 121 CGACTCTGTTGGAAGTGGGACGGCTCTCGGACCCACAGTCCAGTTCTTCTGGTGCC 180  
QY 619 TTGTCCTCTACGTGGGCTACACCGCGTGTCTGATTACAAACACCACTCGAGCGATGC 678  
Db 181 TTGTCCTCTACGTGGGCTACACCGCGTGTCTGATTACAAACACCACTCGAGCGATGC 240  
QY 679 CTGTTGGCCCTCTCGAGGGGACCTGGTGCGCTGCTCTACTGTCTGCTACATCTCAGAC 738  
Db 241 CTGTTGGCCCTCTCGAGGGGACCTGGTGCGCTGCTCTACTGTCTGCTACATCTCAGAC 300  
QY 739 TTCTTCAAGCCCGACCCACAGCACTGTCTGAGGAGGAGGCTGGAAACGGAAGCCC 798  
Db 301 TTCTTCAAGCCCGACCCACAGCACTGTCTGAGGAGGAGGCTGGAAACGGAAGCCC 360  
QY 799 AGCTGTCTACGTGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 858  
Db 361 AGCTGTCTACGTGTTGACCTTGGGCGAGGCTGACCAACCACTTATGGGATACCCG 417  
QY 859 CACTCTTCTTCTGAGGCGGACCCCGCCAGGCGAGGCTGCTGTGAGTCCAG 913  
Db 418 CACTCTTCTTCTGAGGCGGACCCCGCCAGGCGAGGCTGCTGTGAGTCCAG 472

RESULT 12  
US-09-902-941-342  
Sequence 342, Application US/09902941  
Patent No. US20020172952A1  
GENERAL INFORMATION:  
APPLICANT: Henderson, Robert A.  
APPLICANT: Wang, Tongtong  
APPLICANT: Watanabe, Yoshihiro  
APPLICANT: Johnson, Jeffrey C.  
APPLICANT: Retter, Marc W.  
APPLICANT: Warnerakis, Margarita  
APPLICANT: Carter, Darrick  
APPLICANT: Fanger, Gary R.  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: McNabb, Andria  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
AND DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C17

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; CURRENT APPLICATION NUMBER: US/09/902,941
; NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 342
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 109
; OTHER INFORMATION: n = A,T,C or G
US-09-902-941-342
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Query Match 35.6%; Score 438.4; DB 9; Length 472;
Best Local Similarity 97.9%; Pred. No. 5.6e-122;
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;

QY 439 CTGGAGAAGGTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTAC 498
Db 1 CTGGAGAAGGTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTAC 60

QY 499 TCGGGACACTCTTCTTTGGGATGTACTGTCATGGTGTCTTGGCGCTGTATGTCAGGCA 558
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGTCATGGTGTCTTGGCGCTGTATGTCAGGCA 120

QY 559 CGACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACACAGTCCAGTTCTTCTGTTGGCC 618
Db 121 CGACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACACAGTCCAGTTCTTCTGTTGGCC 180

QY 619 TTTGCCCTCTACGTGGGTACACCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 678
Db 181 TTTGCCCTCTACGTGGGTACACCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 240

QY 679 CTGTTGGCCCTCTGAGGGGCACTGGTGGCTGCTCTACTCTGTGCTACATCTCAGAC 738
Db 241 CTGTTGGCCCTCTGAGGGGCACTGGTGGCTGCTCTACTCTGTGCTACATCTCAGAC 300

QY 739 TTCTTCAAAGCCGACCCACAGCACTGTCTGAAAGGAGGAGGCTGGAACGGAAGCCC 798
Db 301 TTCTTCAAAGCCGACCCACAGCACTGTCTGAAAGGAGGAGGCTGGAACGGAAGCCC 360

QY 799 AGCCTGTCACTGACCTGACCCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCG 858
Db 361 AGCCTGTCACTGACCTGACCCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCG 417

QY 859 CACTCTTCTTCTGAGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913
Db 418 CACTCTTCTTCTGAGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472
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RESULT 13
US-09-849-626-342
; Sequence 342, Application US/09849626
; Publication No. US20020197669A1
; GENERAL INFORMATION:
; APPLICANT: Bangur, Chaitanya
; APPLICANT: Fanger, Gary
; APPLICANT: Wang, Aijun
; APPLICANT: Wang, Tongtong
; APPLICANT: Switzer, Anne
; APPLICANT: McNeill, Patricia
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C16
; CURRENT APPLICATION NUMBER: US/09/849,626
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 1926
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 472
; TYPE: DNA
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; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(472)
; OTHER INFORMATION: n = A,T,C or G
US-09-849-626-342

Query Match 35.6%; Score 438.4; DB 9; Length 472;
Best Local Similarity 97.9%; Pred. No. 5.6e-122;
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;

QY 439 CTGGAGAAGGTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTAC 498
Db 1 CTGGAGAAGGTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTAC 60

QY 499 TCGGGACACTCTTCTTTGGGATGTACTGTCATGGTGTCTTGGCGCTGTATGTCAGGCA 558
Db 61 TCGGGACACTCTTCTTTGGGATGTACTGTCATGGTGTCTTGGCGCTGTATGTCAGGCA 120

QY 559 CGACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACACAGTCCAGTTCTTCTGTTGGCC 618
Db 121 CGACTCTGTTGGAAGTGGGCACGGCTGCTGCGACCCACACAGTCCAGTTCTTCTGTTGGCC 180

QY 619 TTTGCCCTCTACGTGGGTACACCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 678
Db 181 TTTGCCCTCTACGTGGGTACACCGCGTGTCTGATTACAAACACCACTGGAGCGATGTC 240

QY 679 CTGTTGGCCCTCTGAGGGGCACTGGTGGCTGCTCTACTCTGTGCTACATCTCAGAC 738
Db 241 CTGTTGGCCCTCTGAGGGGCACTGGTGGCTGCTCTACTCTGTGCTACATCTCAGAC 300

QY 739 TTCTTCAAAGCCGACCCACAGCACTGTCTGAAAGGAGGAGGCTGGAACGGAAGCCC 798
Db 301 TTCTTCAAAGCCGACCCACAGCACTGTCTGAAAGGAGGAGGCTGGAACGGAAGCCC 360

QY 799 AGCCTGTCACTGACCTGACCCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCG 858
Db 361 AGCCTGTCACTGACCTGACCCCTGGGGCGAGGCTGACCAACCACTTATGGGATACCG 417

QY 859 CACTCTTCTTCTGAGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 913
Db 418 CACTCTTCTTCTGAGGCGGACCCCGCCAGGAGGAGCTGCTGTGAGTCCAG 472
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RESULT 14
US-09-476-300-342
; Sequence 342, Application US/09476300
; Publication No. US20030125245A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C3
; CURRENT APPLICATION NUMBER: US/09/476,300
; CURRENT FILING DATE: 1999-12-30
; NUMBER OF SEQ ID NOS: 785
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 472
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(472)
; OTHER INFORMATION: n = A,T,C or G
US-09-476-300-342
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Query Match 35.6%; Score 438.4; DB 10; Length 472;
Best Local Similarity 97.9%; Pred. No. 5.6e-122;
Matches 465; Conservative 0; Mismatches 7; Indels 3; Gaps 2;

QY 439 CTGGAGAAGGTGTCAGGGGAAACCCCTGCTGATGTACCGAGGCCAGGTTGTTCTTCTAC 498
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 2, 2005, 21:27:15 ; Search time 16.9516 Seconds  
(without alignments)  
1215.413 Million cell updates/sec

Title: US-08-842-827-8  
Perfect score: 1453  
Sequence: 1 MQRWVFLDVLCLVLSL.....KEBELRKPSLSLTILGRG 276

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/iaa/5B COMB.pcp.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pcp.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pcp.\*  
5: /cgn2\_6/ptodata/1/iaa/PCRU COMB.pcp.\*  
6: /cgn2\_6/ptodata/1/iaa/backfile1.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	796	54.8	282	4	US-09-360-376-54
2	793.5	54.6	283	3	US-08-992-035A-3
3	793.5	54.6	283	4	US-09-360-376-53
4	776	53.4	285	3	US-08-992-035A-1
5	483	33.2	233	4	US-09-360-376-55
6	413.5	28.5	323	4	US-09-122-315C-18
7	392.5	27.0	412	4	US-09-270-767-43247
8	236	16.2	314	4	US-09-360-376-14
9	235.5	16.2	348	4	US-09-360-376-13
10	232.5	16.0	322	4	US-09-360-376-16
11	225	15.5	343	4	US-09-360-376-17
12	219	15.1	290	4	US-09-360-376-12
13	204.5	14.1	310	4	US-09-360-376-15
14	164	11.3	286	4	US-09-248-796A-15661
15	160.5	11.0	289	4	US-09-360-376-52
16	150	10.3	243	4	US-09-248-796A-15660
17	145	10.0	274	4	US-09-538-092-217
18	105.5	7.3	126	4	US-09-621-976-4116
19	93.5	6.4	305	4	US-09-710-279-2536
20	92	6.3	466	2	US-08-406-855A-23
21	92	6.3	466	3	US-09-206-899-23
22	92	6.3	676	4	US-09-815-923-12
23	90	6.2	476	4	US-09-328-352-4782
24	89.5	6.2	295	4	US-09-107-532A-6497
25	89	6.1	230	4	US-09-621-976-4022
26	89	6.1	301	4	US-09-902-540-16211
27	88	6.1	466	4	US-09-688-415-11

28	87.5	6.0	411	4	US-09-540-236-3549	Sequence 3549, Ap
29	87	6.0	429	2	US-08-748-485-7	Sequence 7, Appl
30	87	6.0	429	4	US-09-919-039-6	Sequence 6, Appl
31	87	6.0	466	1	US-08-722-001-12	Sequence 12, Appl
32	87	6.0	466	2	US-08-467-568-11	Sequence 11, Appl
33	87	6.0	466	2	US-09-030-582-11	Sequence 11, Appl
34	86.5	6.0	324	4	US-09-549-848B-34	Sequence 34, Appl
35	86.5	6.0	324	4	US-09-134-000C-4759	Sequence 4759, Ap
36	86.5	6.0	1509	4	US-09-676-519-27	Sequence 27, Appl
37	85	5.8	208	3	US-09-134-001C-3209	Sequence 3209, Ap
38	85	5.8	375	1	US-08-118-270-17	Sequence 17, Appl
39	85	5.8	375	5	PCT-US93-08528-17	Sequence 17, Appl
40	84.5	5.8	673	4	US-09-248-796A-20413	Sequence 20413, A
41	84	5.8	233	3	US-09-134-001C-4013	Sequence 4013, Ap
42	83	5.7	159	4	US-09-602-787A-102	Sequence 102, App
43	83	5.7	204	4	US-09-710-279-412	Sequence 412, App
44	83	5.7	204	4	US-09-710-279-1218	Sequence 1218, Ap
45	83	5.7	466	1	US-08-334-698-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1  
US-09-360-376-54  
; Sequence 54, Application US/09360376  
; Patent No. 6495739  
; GENERAL INFORMATION:  
; APPLICANT: Lashner, Michael  
; APPLICANT: Ruzinsky, Diane  
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
; FILE REFERENCE: 17026/01/US  
; CURRENT APPLICATION NUMBER: US/09/360,376  
; PRIOR FILING DATE: 1999-07-23  
; PRIOR APPLICATION NUMBER: US 09/122,315  
; PRIOR FILING DATE: 1998-07-24  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 54  
; LENGTH: 282  
; TYPE: PRT  
; ORGANISM: Rattus sp.  
US-09-360-376-54

Query Match	54.8%	Score	796	DB	4	Length	282
Best Local Similarity	56.7%	Pred. No.	2.3e-77				
Matches	153	Conservative	46	Mismatches	61	Indels	10
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QY	64	ATVLVSAGEALVYTRDLYSRSDP--NNYVAAYKVLGTFLFGAAVVSQSLTDLAKYMWIGR	122				
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QY	123	LKENFLAVCDPWSRVNCS-VYVLEKVCGRNPADYTEARLSYSGHSSFGMYCMLPAL	181				
DB	126	LRPHFLAVCNPDWSKINDSGYIE-NFVCGNEQKVRGRLSFYSGHSSFGMYCMLPAL	184				
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QY	242	YISDFPKARPPQCHLKEBELRKPSLSLT	271				
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RESULT 2  
US-08-992-035A-3  
; Sequence 3, Application US/08992035A  
; Patent No. 6242179

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; APPLICANT: Lasener, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17036/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 53
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-360-376-53

Query Match 54.6%; Score 793.5; DB 4; Length 283;
Best Local Similarity 56.0%; Pred. No. 4.3e-77;
Matches 150; Conservative 49; Mismatches 62; Indels 7; Gaps 5

Qy 4 RWFVLLDVLCLLVASLPFAILLVNPAYKRGFYCGDSDIRYVRPDTITHGLMAGVTIT 63
Db 6 RUPYVALDVICVLLAGLFALLTSHRPFGORPCNDSDIKYPKEDTIPYALGGIVIP 65
Qy 64 ATVILVSAGEAYLVYTDRLYSRDFNN-YVAAVYKVLGTLFGAAYVSQSLTDLAKTMIGR 122
Db 66 FCILVMSGESISVYFNVVHNSPFGNPYIATYKAVGAFLFGVSASQSLTDLAKTYIGS 125
Qy 123 LKPNFLAVCDPDMWRVNGS-VYVOLEKVKRGNPADVTEARLSFYSGHSSFGMYCNVPLAL 181
Db 126 LRPFLAICNPDMWSKINGSDGYIE-DYICQGNBEKVKEGRLSFYSGHSSFSMYCMLFVAL 184
Qy 182 YVOARLCWKWARLLRPYTOFFLVAFALVYGVTVRSDYKHHWSDVLYCLLQALVAALTV 241
Db 185 YLQARMKGDWARLLRPMILQFLIAFSYIVGLSRSDYKHHWSVDTVGLIQGAAMAILVAL 244
Qy 242 YISDFFKARPQHCLKKEELEERKPSLSL 269
Db 245 YVSDFFK--DTHSYKERK-EEDPHHTL 268

RESULT 4
US-08-992-035A-1
; Sequence 1. Application US/08992035A
; Patent No 6242179
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; TITLE OF INVENTION: HUMAN PHOSPHATASES
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/992.035A
; FILING DATE: December 17, 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749

```

```

RESULT 7
US-09-270-767-43247
; Sequence 43247, Application US/09270767
; Patent NO. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster.
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43247
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-43247

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Qy	68	LVSAGEALVYTDRLYRSRSDFNYYVAAYKVLGTFLFGAAVQSQSLTDLAKYMWIGRLKPNF	127
Db	79	PLA---VFLLV---YFIKRD---VDYDLHAIIMGLLFSVLITAVMTDAIKDAVGRPRPDE	128
Qy	128	LAVCDPDWSRYNCSYVVOLEKVCRCGNPADVTEARLSFYSGHSFSGMYCMVFLALYVQ---	184
Db	129	FWRCPDGKGVPDPVTSNV--LCTGDGKGVKEGHKSPGSGHTSWSFAGLVYLAWLVSGLK	186
Qy	185	-----ARLCWKWARLLRPTQVFFLVAFAALYVGYTRVSDYKHHWSDLVLGLLQGLAV	235
Db	187	RAFDRRGRHVAKLC-----LVFLPILVAAMIATVSRVDYWHHWQDVPFAGALIGMII	236
Qy	236	AALTVCYISDFFFKARPPQH	254
Db	237	ASF--CYLQFF---PPPY	249

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RESULT 11
US-09-360-376-17
; Sequence 17, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Laesnez, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360.376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 17
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Glycine sp.
; US-09-360-376-17

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Query Match	15.5%	Score 225;	DB 4;	Length 343;
Best Local Similarity	28.3%	Pred. No. 9.6e-16;		
Matches	77;	Conservative 37;	Mismatches 88;	Indels 70; Gaps 14;
Qy	5	WVFLLDVLLCLVASLPAAILLVNAPYKRGFCYCDG---	SIRVPYRPDTHI	THGLMAGVT 61
Db	50	WLIIILL--LVLIIVISL-----YIIHPFHR--FVGKMMTDLKPLKSNTPWPAWAIIPIYA 99	:	:
Qy	62	ITATVILVLSAGEAVLVYTDRLYSRSDFNYYAAVVKVLGTFELFGAAVYSQSUTDLAKYMG 121	:	:
Db	100	ILLPIVIFLG-----VYIRR--RDVYDLH--HAVLG-LFVSVLTAVTEAIKNAVG 146	:	:
Qy	122	RLKENFLAVCDPD-----WSRYNCVSYVQLEKVCGRGNPAADVTEARLSFYSGHSSFGMY 174	:	:
Db	147	RPRDEFWRCFPDGKDYVDKGDV-----ICHGDQKVIKEGYKSPFSGHTSGSPS 196	:	:
Qy	175	CMVFALIVQ-----ABLCKWAKLLRPTVQFFVLVAFALYGVYTRVSDYKHHW 222	:	:
Db	197	GLGFSLYLSGKIKAFDRKGHVAKLC-----IVFLLVASLVGISRVDYDWHW 246	:	:
Qy	223	SDVLVGLLOGNALVAALTVCYILSDFFKARPPQH 254	:	:
Db	247	QDVFPAGGLGLTVA--TFCYLQFF---PPPYH 273	:	:

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RESULT 12
US-09-360-376-12
; Sequence 12, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Laesner, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US

```

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; CURRENT APPLICATION NUMBER: US/09/360,376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 290
; TYPE: PRT
; ORGANISM: Arabidopsis sp.
US-09-360-376-12

Query Match
Best Local Similarity 15.1%; Score 219; DB 4; Length 290;
Matches 74; Conservative 42; Mismatches 91; Indels 60; Gaps 13;

Qy 5 WVFLDLVCLLVASLFAILLTVNARYKGFVCGDD---SIRYPYRPDITTHCLMAGVT 61
Db 26 WLIIILLIVITVLN-----VIEPFR--FVGEDMLTDLRYPLQDNTIP---FWAVP 72

Qy 62 ITATVILVSAGEAFLVYTDRLYRSRDPNNVAAVYKVLGTFELFGAAVSQSLTDLAKYMG 121
Db 73 LIAVLVPAVICVYYFRNDVY---DLH-----HAILG--LLFSVLITGITDAIKAVG 122

Qy 122 RLKPNFLAVCDPDMWSRVNCVYYVQLEK--VCRGNPADVTEARLSFYSGHSFGMYCWVFL 179
Db 123 RRPDPDFEWRCPFD---GIGIFHNVTXNVLCITGAKDVVKEGHKSFPSGHTSWSFAGLGFL 178

Qy 180 ALYVQ-----ARLCMKWARLLRFTVQFFLVAFALYGYTVRSYDKHHWSDLV 227
Db 179 SLVLSGKIRVEDQRGHVKLC-----IIVLPLVLAALGVSRVDVYWHHWQDVF 228

Qy 228 GLLOGALVAALTVCYISIDFFPKARPPQH 254
Db 229 GAIIGLTVA--TFCYLOFF-----PPY 249

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RESULT 13
US-09-360-376-15
; Sequence 15, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Laesner, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 15
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Zea mays
US-09-360-376-15

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	Query Match	14.1%	Score 204.5	DB 4	Length 310
	Best Local Similarity	25.9%	Pred. No. 1.3e-13		
	Matches 63	Conservative	50	Mismatches 105	Indels 25
					Gaps 9
Qy	9	LLDVLCLLVASLPFAILLTLNAPYKGFYCGDD---	SIRYPYRPDDTIITHGLMAGVTITAT	65	
Db	22	MYDWIILLALLAVIDGLNIIIE--BFHR--	FVGKDMTDLRYPMKGNTPVFW-----	A 69	
Qy	66	VIIVSAGEAYLVITDRLYSRSDFNYYAAVYKVLGTF	FGAAVYSQSILTDLAKYMGIRLKP	125	
Db	70	VPLIGIILPWAIFVGIVPKK--	KNFYDLHHGILG-ILYSVLITAVITDAIKOGVGRPRP	125	
Qy	126	NFLAVCDPDMRSVNCVYVLEKVCGRGNPADVT	EARLSFYSGHSSFGMYCMVFLAYLVQQA	185	
Db	126	DFWRCPGNGVDVNIITGV--	ICNGKSVIKEGHKSFPSSGHSSVFAGLGFLAWLAG	183	



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OM protein - protein search, using sw model

Run on: November 2, 2005, 21:46:06 ; Search time 81.8927 Seconds  
(without alignments)  
1408.915 Million cell updates/sec

Title: US-08-842-827-8  
Perfect score: 1453  
Sequence: 1 MQRWVFLVDLCLVSL.....KEELERKPSLSLTTLGRG 276

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues  
Total number of hits satisfying chosen parameters: 1865214

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum March 100%  
Listing first 45 summaries

Database :		Published Applications AA:*	
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3:	/cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*	4:	/cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5:	/cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*	6:	/cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7:	/cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*	8:	/cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9:	/cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*	10:	/cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11:	/cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*	12:	/cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13:	/cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*	14:	/cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15:	/cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*	16:	/cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
17:	/cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*	18:	/cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
19:	/cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*	20:	/cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
21:	/cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*	22:	/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1347	92.7	274	18	US-10-491-467-49
2	825.5	56.8	284	18	US-10-764-425-157
3	811	55.8	289	16	US-10-643-795A-136
4	811	55.8	289	17	US-10-948-518-136
5	776	53.4	285	16	US-10-655-601-1
6	651	44.8	311	17	US-10-812-238A-13
7	650	44.7	311	16	US-10-655-601-2
8	638.5	43.9	221	15	US-10-287-226-346
9	638.5	43.9	221	15	US-10-287-226-348
10	517.5	35.6	372	20	US-11-097-143-2046
11	463	31.9	89	14	US-10-029-386-29445

Sequence 750, App  
Sequence 750, App  
Sequence 14997, A  
Sequence 912, App  
Sequence 41346, A  
Sequence 41346, A  
Sequence 41352, A  
Sequence 5, Appli  
Sequence 41349, A  
Sequence 52, Appl  
Sequence 2833, Ap  
Sequence 2, Appli  
Sequence 2701, Ap  
Sequence 10075, A  
Sequence 340, App  
Sequence 3, Appli  
Sequence 125, App  
Sequence 490, App  
Sequence 125, App  
Sequence 493, App  
Sequence 6893, Ap  
Sequence 43046, A  
Sequence 207810,  
Sequence 276804,  
Sequence 5750, Ap  
Sequence 208641,  
Sequence 44853, A  
Sequence 3964, Ap  
Sequence 121968,  
Sequence 360650,  
Sequence 203640,  
Sequence 70549, A  
Sequence 41280, A

ALIGNMENTS

RESULT 1  
US-10-491-467-49  
; Sequence 49, Application US/10491467  
; Publication No. US20050186568A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE CORPORATION; BANDMAN, Olga;  
; APPLICANT: BAUGHN, Mariah R.; BECHA, Shanya D.;  
; APPLICANT: BOROWSKY, Mark L.; DUGAN, Brendan M.;  
; APPLICANT: EMERLING, Brooke M.; FORSYTHE, Ian J.;  
; APPLICANT: GANDHI, Ameena R.; GORVAD, Ann E.;  
; APPLICANT: GRIFFIN, Jennifer A.; GURURAJAN Rajagopal;  
; APPLICANT: HAPALIA, April J.A.; KHAN, Farrah A.;  
; APPLICANT: LAL, Preeti G.; LEE, Ernestine A.;  
; APPLICANT: LEE, Soo Yeun; LINDQUIST, Erika A.;  
; APPLICANT: LU, Dying Aina M.; LU, Yan;  
; APPLICANT: MARQUIS, Joseph P.; NGUYEN, Danniell B.;  
; APPLICANT: ARVIZU, Chandra S.; RAMKUMAR, Jayalaxmi;  
; APPLICANT: RECIPON, Shirley A.; RICHARDSON, Thomas W.;  
; APPLICANT: SWARNAKAR, Anita; TANG, Y. Tom;  
; APPLICANT: THORNTON, Michael B.; TRAN, Uyen K.;  
; APPLICANT: CHAWLA, Narinder K.; WARREN, Bridget A.;  
; APPLICANT: YANG, Junming; YAO, Monique G.;  
; APPLICANT: YUE, Henry; ZEBARJADIAN, Yeganeh  
; TITLE OF INVENTION: KINASES AND PHOSPHATASES  
; FILE REFERENCE: PF-1244 USN  
; CURRENT APPLICATION NUMBER: US/10/491,467  
; CURRENT FILING DATE: 2004-03-31  
; PRIOR APPLICATION NUMBER: PCT/US02/33723  
; PRIOR FILING DATE: 2002-10-17  
; PRIOR APPLICATION NUMBER: US 60/345,474  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/343,910  
; PRIOR FILING DATE: 2001-11-02  
; PRIOR APPLICATION NUMBER: US 60/333,098





QY 237 ALTVCYISDFKARPQHCLKEE 260  
| : : : : :  
Db 245 ILVAVVSDFFKERTSFKERKEED 268

## RESULT 4

US-10-948-518-136  
; Sequence 136, Application US/10948518  
; Publication No. US20050064492A1

## GENERAL INFORMATION:

; APPLICANT: FREDERIC J. DESAUVAGE

; APPLICANT: GRETCHEN FRANTZ

; APPLICANT: KENNETH J. HILLAN

; APPLICANT: PAUL POLAKIS

; APPLICANT: ANDREW POLSON

; APPLICANT: VICTORIA SMITH

; APPLICANT: SUSAN D. SPENCER

; APPLICANT: THOMAS D. WU

; APPLICANT: ZEMIN ZHANG

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

; FILE REFERENCE: P5026R1-US

; CURRENT APPLICATION NUMBER: US/10/948,518

; CURRENT FILING DATE: 2004-09-22

; PRIOR APPLICATION NUMBER: US/10/643,795

; PRIOR FILING DATE: 2003-08-19

; PRIOR APPLICATION NUMBER: US 60/404,809

; PRIOR FILING DATE: 2002-08-19

; PRIOR APPLICATION NUMBER: US 60/405,645

; PRIOR FILING DATE: 2002-08-21

; PRIOR APPLICATION NUMBER: US 60/413,192

; PRIOR FILING DATE: 2002-09-23

; PRIOR APPLICATION NUMBER: US 60/419,008

; PRIOR FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 60/426,847

; PRIOR FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US 60/484,959

; PRIOR FILING DATE: 2003-07-02

; NUMBER OF SEQ ID NOS: 158

; SEQ ID NO 136

; LENGTH: 289

; TYPE: PRT

; ORGANISM: Homo sapien

US-10-948-518-136

Query Match 55.8%; Score 811; DB 17; Length 289;

Best Local Similarity 59.1%; Pred. No. 2.4e-73;

Matches 156; Conservative 42; Mismatches 58; Indels 8; Gaps 4;

QY 4 RWVFLLDVLCCLLVASLPFALTLVNA-PYKRGFYCGDDSIIRYPYRPTDTHGLMA 58  
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Db 6 RLPHYVALDVLCCLLVASLPFALTLVNA-PYKRGFYCGDDSIIRYPYRPTDTHGLMA 65

QY 59 GVTITATVILVSAGEAYLVYTDRLYSRDP-NNYVAAYVKVLTGTLFGAAVSQSITDLAK 117  
| : : : : :  
Db 66 GIIPISIIILGETLSVYCNLLHNSFIRNNYIATIKYKGTFLFGAAVSQSITDLAK 125

QY 118 YMIGRLKPNFLAVCDPDWSRVNCS-VYVQLEKVCGRNPADVTPEARLSFYSGHSSFGMYCM 176  
| : : : : :  
Db 126 YSIGRLRPHFLDVCDPDWSKINGSDGYIEY-VICRGNABRVKEGRLSFYSGHSSFGMYCM 184

QY 177 VFLALVQARLCKWRLRLPTVQFELVAFALYVGYTRVSDYKHWSDLVGLGALVALVA 236  
| : : : : :  
Db 185 LFVALYLQARMKGDWRLRLPTLQFGLVAVSIYVGLSRVSDYKHWSDLVGLGALVALVA 244

QY 237 ALTVCYISDFKARPQHCLKEE 260

Db 245 ILVAVVSDFFKERTSFKERKEED 268

## RESULT 5

US-10-655-601-1

; Sequence 1, Application US/10655601  
; Publication No. US20040137522A1

## GENERAL INFORMATION:

; APPLICANT: Feany, Mel B.

; APPLICANT: Shulman, Joshua M.

; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy

; FILE REFERENCE: 7570/73251

; CURRENT APPLICATION NUMBER: US/10/655,601

; CURRENT FILING DATE: 2003-09-05

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 285

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-655-601-1

Query Match 53.4%; Score 776; DB 16; Length 285;

Best Local Similarity 58.5%; Pred. No. 8.2e-70;

Matches 152; Conservative 39; Mismatches 65; Indels 4; Gaps 4;

QY 4 RWVFLLDVLCCLLVASLPFALTLVNA-PYKRGFYCGDDSIIRYPYRPTDTHGLMAGVTI 62  
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Db 6 RLPHYVALDVLCCLLVASLPFALTLVNA-PYKRGFYCGDDSIIRYPYRPTDTHGLMAGVTI 65

QY 63 TATVILVSAGEAYLVYTDRLYSRDP-NNYVAAYVKVLTGTLFGAAVSQSITDLAKYMG 121  
| : : : : :  
Db 66 GIIPISIIILGETLSVYCNLLHNSFIRNNYIATIKYKGTFLFGAAVSQSITDLAKYMG 125

QY 122 RLKPNFLAVCDPDWSRVNCS-VYVQLEKVCGRNPADVTPEARLSFYSGHSSFGMYCMVFLA 180  
| : : : : :  
Db 126 RLKPNFLAVCDPDWSKINGSDGYIEY-VICRGNABRVKEGRLSFYSGHSSFGMYCMVFLA 184

QY 181 LYVQARLCKWRLRLPTVQFELVAFALYVGYTRVSDYKHWSDLVGLGALVALVA 240  
| : : : : :  
Db 185 LYVQARLCKWRLRLPTVQFELVAFALYVGYTRVSDYKHWSDLVGLGALVALVA 244

QY 241 CVISDFFKARPQHCLKEE 260

Db 245 VTVSDFFKERTSFKERKEED 264

## RESULT 6

US-10-812-238A-13

; Sequence 13, Application US/10812238A

; Publication No. US20050002904A1

## GENERAL INFORMATION:

; APPLICANT: Wary, Kishore, K.

; APPLICANT: Humtsoe, Joseph O.

; TITLE OF INVENTION: Uses of Vascular Endothelial Growth Factor

; FILE REFERENCE: D6563

; CURRENT APPLICATION NUMBER: US/10/812,238A

; CURRENT FILING DATE: 2004-03-29

; PRIOR APPLICATION NUMBER: US 60/458,164

; PRIOR FILING DATE: 2003-03-27

; NUMBER OF SEQ ID NOS: 36

; SEQ ID NO 13

; LENGTH: 311

; TYPE: PRT

; ORGANISM: Unknown

; FEATURE:

; NAME/KEY: CHAIN

; OTHER INFORMATION: human VCIP

US-10-812-238A-13

Query Match 44.8%; Score 651; DB 17; Length 311;

Best Local Similarity 49.8%; Pred. No. 4.1e-57;

Matches 133; Conservative 48; Mismatches 76; Indels 10; Gaps 7;

QY 3 RWVFLLDVLCCLLVASLPFALTLVNA-PYKRGFYCGDDSIIRYPYRPTDTHGLMAGV 60  
| : : : : :  
Db 32 KRVLLICLDFCLFNAGLPFLIETSTIKPYHRGFYCNDSIKYPLKGTGETINDAVLCAV 91



Db 71 CDPWSKINGSDGIEY-YICRGNARVKEGRLSFYSGHSSFSMYCMLFVALYLQARMKG 129  
Qy 190 KWARLLRPTVQFELVAVGYTRVSDYKHHSVDVLVGLLQALVAALTVCVISDFPKA 249  
Db 130 DWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIQLGALVAILVAVVYVSDFFKE 189  
Qy 250 RPPQHCLKEEB 260  
Db 190 RTSFKERKEED 200

RESULT 9  
US-10-287-226-348  
; Sequence 348, Application US/10287226  
; Publication No. US2004008675A1  
; GENERAL INFORMATION:  
; APPLICANT: Agee, Michele L.,  
; APPLICANT: Alsobrook, John P.,  
; APPLICANT: Berghs, Constance,  
; APPLICANT: Boldog, Ference,  
; APPLICANT: Burgess, Catherine E.,  
; APPLICANT: Chant, John S.,  
; APPLICANT: Chaudhuri, Amitabha,  
; APPLICANT: DiPippo, Vincent A.,  
; APPLICANT: Edinger, Shlomit R.,  
; APPLICANT: Eisen, Andrew,  
; APPLICANT: Ellerman, Karen,  
; APPLICANT: Gangolli, Esha A.,  
; APPLICANT: Gorman, Linda,  
; APPLICANT: Gerlach, Valerie,  
; APPLICANT: Ji, Weizhen,  
; APPLICANT: Kekuda, Ramesh,  
; APPLICANT: Khramtsov, Nikolai,  
; APPLICANT: Li, Li,  
; APPLICANT: Malyankar, Uriel M.,  
; APPLICANT: MacDougall, John R.,  
; APPLICANT: Mezes, Peter S.,  
; APPLICANT: Miller, Charles E.,  
; APPLICANT: Millet, Isabelle,  
; APPLICANT: Ooi, Chean Eng,  
; APPLICANT: Ort, Tatiana,  
; APPLICANT: Padigaru, Muralidhara,  
; APPLICANT: Patturajan, Meera,  
; APPLICANT: Rastelli, Luca,  
; APPLICANT: Rieger, Daniel K.,  
; APPLICANT: Rothenberg, Mark E.,  
; APPLICANT: Shenoy, Suresh G.,  
; APPLICANT: Spaderna, Steven K.,  
; APPLICANT: Spytek, Kimberley A.,  
; APPLICANT: Taupier, Jr., Raymond J.,  
; APPLICANT: Vernet, Corine A.M.,  
; APPLICANT: Zernhusen, Bryan D.,  
; APPLICANT: Zhong, Mei  
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-480C  
; CURRENT APPLICATION NUMBER: US/10/287,226  
; CURRENT FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/334,421  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,392  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/360,148  
; PRIOR FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: 60/364,000  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/404,821  
; PRIOR FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: 60/334,526  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,409  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/364,227

; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/334,027  
; PRIOR FILING DATE: 2001-11-28  
; PRIOR APPLICATION NUMBER: 60/331,641  
; PRIOR FILING DATE: 2001-11-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 673  
; SOFTWARE: Curaseq version 0.1  
; SEQ ID NO 348  
; LENGTH: 221  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-287-226-348

Query Match 43.9%; Score 638.5; DB 15; Length 221;  
Best Local Similarity 64.9%; Pred. No. 4.8e-56;  
Matches 124; Conservative 24; Mismatches 40; Indels 3; Gaps 3;  
Qy 72 GEAYLVYTDRLYSRDF-NNYVAAVYKVLGTFLFGAAVSQSLTDLAKYMGRLKPNFLAV 130  
Db 11 GETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAVSQSLTDLAKYSGRLRPHFLDV 70  
Qy 131 CDPWSRVNCS-VYQLEKVCRCNPADVTETEARLSFYSGHSSFSMYCMLFVALYLQARMKG 189  
Db 71 CDPWSKINGSDGIEY-YICRGNARVKEGRLSFYSGHSSFSMYCMLFVALYLQARMKG 129  
Qy 190 KWARLLRPTVQFELVAVGYTRVSDYKHHSVDVLVGLLQALVAALTVCVISDFPKA 249  
Db 130 DWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIQLGALVAILVAVVYVSDFFKE 189  
Qy 250 RPPQHCLKEEB 260  
Db 190 RTSFKERKEED 200

RESULT 10  
US-11-097-143-2046  
; Sequence 2046, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2046  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-2046  
Query Match 35.6%; Score 517.5; DB 20; Length 372;



Db 17 SLFPAILTLVNAPYKRGFCGDDSIYPYRPDTITHGLMAGVTITATVILVSAGEAYLVY 76  
QY 79 TDLYSRSDFNYYVAAYVKVLTFLFG 105  
Db 77 TDLYSRSDFNYYVAAYVKVLTGSLG 103

## RESULT 14

US-11-097-143-14997  
; Sequence 14997, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14997  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-14997

Query Match 27.8%; Score 403.5; DB 20; Length 340;  
Best Local Similarity 38.6%; Pred. No. 5e-32;  
Matches 100; Conservative 47; Mismatches 89; Indels 23; Gaps 9;  
QY 8 VLDVLCLVASLFPAILTLVNAPYKRGFCGDDSIYPYRPDTITH--GLMAGVTITA 64  
Db 38 LLVELLWVVVLPICVYFAVDVVRGFCDDDESISYPQDNTITPVMGLIVGL-LPA 96  
QY 65 TVILVSAGEAYLVYTRDLYSRSDFNYY-VAAYVKVLT-----FLFGAASQSITDLAKYM 119  
Db 97 LVNVMVVEYVSHLRAGD-ISATVDLLGWRVSTWTVYELGRQSTYFCFGLLTFFDATEVGKYT 155  
QY 120 IGRKPNFLAVCDP---DMSRVNCSYVVOLEKV-----CRG---NPADVTEARLSFYSCH 168  
Db 156 IGRLRPHFLAVCQPOQIADGSM--CSDPVNLHRYWENYDCAGEFTVEDVRQARLSFSGH 213  
QY 169 SSFGMYCMVFLALYQARLCWKWARLLRPTVQFFLVAFALYGVYTRVSDYKHHWSDVLVG 228  
Db 214 SSLAFYAMIVVALYLQRKITWRGSKLSRHFVQFAVVMVAVYATLSRVMDHWHHWSVDVLSG 273  
QY 229 LLOGALVAALTVCYISDF 247  
Db 274 SLLGVAGALITAHYIARME 292

## RESULT 15

US-11-097-143-912  
; Sequence 912, Application US/11097143  
; Publication No. US20050208558A1

; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 912  
; LENGTH: 246  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-912

Query Match 25.8%; Score 374.5; DB 20; Length 246;  
Best Local Similarity 38.7%; Pred. No. 2.9e-29;  
Matches 87; Conservative 33; Mismatches 70; Indels 35; Gaps 8;  
QY 33 KRGFCGDDSIYPYRPDTITHG---LMAGVTITATVILVSAGEAYLVYTRDLYS----- 84  
Db 12 KRGFCDDSLRHPYRDSWPSWILYLMCG-ALPLTVMLV--EPPRGQDKRLHSPPKS 68  
QY 85 -----RSDFNYYVAAYVKVLTFLFGAASQSITDLAKYMIGRLKPNFLAVCDPDW 135  
Db 69 TMCSGYHLCHLELPTWLVECYHRMGIFLGLGVEQLSTNIAKYSIGRLRPHFYTLCPVM 128  
QY 136 -----SRVNCYVVOLEKVCRGNADVT-----SARLSFYSCHSFGMYCMVFLALYV 183  
Db 129 KOGTTCSDPINAAARYIE-EFTCAA--VDITSKQKDMRLSPSPGSHASFCYSMYLYLYL 185  
QY 184 QARLCWKWARLLRPTVQFFLVAFALYGVYTRVSDYKHHWSDVLVG 228  
Db 186 HRRMQWQLRMLCHLLQFLLLMPFAWYTALTTRVSDYKHHWSDVLVG 230

Search completed: November 2, 2005, 22:16:39  
Job time : 82.8927 secs

Page blank (uspio)

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	1185	72.6	233	4	US-09-360-376-55	Sequence 55, Appl	
2	724.5	43.0	282	4	US-09-360-376-54	Sequence 54, Appl	
3	702	44.4	285	3	US-08-992-035A-1	Sequence 1, Appl	
4	696.5	42.7	283	3	US-08-992-035A-3	Sequence 3, Appl	
5	696.5	42.7	283	4	US-09-360-376-53	Sequence 53, Appl	
6	496.5	30.4	323	4	US-09-122-315C-18	Sequence 18, Appl	
7	425	26.0	412	4	US-09-270-767-43247	Sequence 43247, A	
8	239.5	14.7	322	4	US-09-360-376-16	Sequence 16, Appl	
9	236	14.9	343	4	US-09-360-376-17	Sequence 17, Appl	
10	227.5	13.9	348	4	US-09-360-376-13	Sequence 13, Appl	
11	227	13.9	310	4	US-09-360-376-15	Sequence 15, Appl	
12	221.5	13.6	290	4	US-09-360-376-12	Sequence 12, Appl	
13	221.5	13.6	314	4	US-09-360-376-14	Sequence 14, Appl	
14	187	11.5	296	4	US-09-248-796A-15661	Sequence 15661, A	
15	184.5	11.3	274	4	US-09-538-032-217	Sequence 217, App	
16	180	11.0	289	4	US-09-360-376-52	Sequence 52, Appl	
17	160	9.8	243	4	US-09-248-796A-15660	Sequence 15660, A	
18	121.5	7.4	126	4	US-09-621-976-4116	Sequence 4116, Ap	
19	108	6.6	234	4	US-09-902-540-11032	Sequence 11032, A	
20	106.5	6.5	459	4	US-09-583-110-5017	Sequence 5017, Ap	
21	106.5	6.5	470	4	US-09-107-433-4341	Sequence 4341, Ap	
22	99.5	6.1	254	4	US-09-107-532A-4025	Sequence 4025, Ap	
23	95.5	5.8	159	4	US-09-602-787A-102	Sequence 102, App	
24	91	5.6	352	1	US-08-196-989B-2	Sequence 2, Appl	
25	91	5.6	352	2	US-08-760-936-2	Sequence 2, Appl	
26	91	5.6	352	4	US-09-582-200A-11	Sequence 11, Appl	
27	91	5.6	352	4	US-09-169-205D-24	Sequence 24, Appl	

```

; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360.376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 54
; LENGTH: 282
; TYPE: PR1
; ORGANISM: Rattus sp.
US-09-360-376-54

```

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; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 285 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BLADN0706
; CLONE: 1719418
; US-08-992-035A-1

Query Match 43.0%; Score 702; DB 3; Length 285;
Best Local Similarity 54.0%; Pred. No. 3 6e-75;
Matches 136, Conservative 40; Mismatches 74; Indels 2; Gaps 2;

Qy 33 RVLICLDLFCLEPMAGLFFLIETSTIKPYHRGFYCNDESIKYPCLKTGETINDAVLCVNG 92
Db 6 RLFPVALDVLCLVLASMPAVLGLQIYPPQRFCKDINSINYPYH-DSTVITSTVLILVG 64
Qy 93 IVTAIIAIIITGEFRIY-YLKKSRSITONPYVAALYKQVGCFLFGCAISOSEFTDIKSVI 151
Db 65 VGPPISSIIIGETLSVVCNLLHNSFRNNYIATIKAITFLFGAAASQSLTDIAKSVI 124
Qy 152 GLRLPHFLSVCNPDFQINGCEGYIQNYRCRGDDSKVQEARKEFFSGHASFSMYTMYLV 211
Db 125 GLRLPHFLDVCDDPWSKINGSDGYIEYICRGAERVKEGRLSFYSGHSFSMYCMLFVA 184
Qy 212 LYIQARFTWGRALLRPLQLFTLIMMAFYTGLSRVSDPHKHPDSDVLAFGAQGALVACCIV 271
Db 185 LYIQARKMGDWARLLRPTLQFLGVAVSIYVGLSRVSDYKHHNSDVLTLGQLGALVALVA 244
Qy 272 FFVSDLFKTKIT 283
Db 245 VYVSDFFKERTS 256

```

RESULT 3  
US-08-992-035A-1  
; Sequence 1, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fastseq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/992,035A  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555

RESULT 4  
US-08-992-035A-3  
Sequence 3, Application US/08992035A  
Patent No. 6243179  
GENERAL INFORMATION:  
APPLICANT: Shah, Purvi  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Corley, Neil C.  
APPLICANT: Lal, Preeti  
TITLE OF INVENTION: HUMAN PHOSPHATASES  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Dr.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/992,035A  
FILING DATE: December 17, 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0433 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166



INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 283 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GENBANK  
CLONE: 1487873  
US-08-992-035A-3

Query Match 42.7%; Score 696.5; DB 3; Length 283;  
Best Local Similarity 54.4%; Pred. No. 1.6e-74;  
Matches 135; Conservative 43; Mismatches 67; Indels 3; Gaps 3;  
QY 33 RVLLICLDLFLMAGLPLLIETSTIKPYHRGFYCNDESISKYPLKTKGTINDAVLCVAVG 92  
DB 6 RLPYVALDVLCVLLAGLPFAILL-TSRHTPFQRGIFCNDDSIKYPYKE-DTIPYALLGGIV 63  
QY 93 IVTALIAITGEFYRIYY-LKKSRSSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKSVI 151  
DB 64 IPFCIIWMSIGESLSVYFVNLHNSFVGNPYIATIKAVGAFLEGVASQSLTDIAKTYI 123  
QY 152 GRLRPHFLSVCNPDPSQINCEGYIQNYRCRGGDSKVQEARKEFFSGHASFSMYTMLVLY 211  
DB 124 GSLRPHFLAICNPDPWSKINGSDGYIEDYICQNEEKVKEGRLSFYSGHSSFSMYCMLFVA 183  
QY 212 LYLOARFTWGRARLLRPLLOFTLIMAFYTGLSRVSDHKHPSDVLGAGPAQCALVACCIV 271  
DB 184 LYLOARMKGDWARLLRPLMLOFGLIATFSIYVGLSRVSDYKHHSDVTVGLTQGAAMAILVA 243  
QY 272 FFVSDLPK 279  
DB 244 LYVSDFFK 251

## RESULT 5

US-09-360-376-53  
Sequence 53, Application US/09360376  
Patent No. 6495739  
GENERAL INFORMATION:  
APPLICANT: Lasser, Michael  
APPLICANT: Ruezinsky, Diane  
TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
FILE REFERENCE: 17026/01/US  
CURRENT APPLICATION NUMBER: US/09/360,376  
CURRENT FILING DATE: 1999-07-23  
PRIOR APPLICATION NUMBER: US 09/122,315  
PRIOR FILING DATE: 1998-07-24  
NUMBER OF SEQ ID NOS: 55  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 53  
TYPE: PRT  
LENGTH: 283  
ORGANISM: Mus musculus  
US-09-360-376-53

Query Match 42.7%; Score 696.5; DB 4; Length 283;  
Best Local Similarity 54.4%; Pred. No. 1.6e-74;  
Matches 135; Conservative 43; Mismatches 67; Indels 3; Gaps 3;  
QY 33 RVLLICLDLFLMAGLPLLIETSTIKPYHRGFYCNDESISKYPLKTKGTINDAVLCVAVG 92  
DB 6 RLPYVALDVLCVLLAGLPFAILL-TSRHTPFQRGIFCNDDSIKYPYKE-DTIPYALLGGIV 63  
QY 93 IVTALIAITGEFYRIYY-LKKSRSSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKSVI 151  
DB 64 IPFCIIWMSIGESLSVYFVNLHNSFVGNPYIATIKAVGAFLEGVASQSLTDIAKTYI 123  
QY 152 GRLRPHFLSVCNPDPSQINCEGYIQNYRCRGGDSKVQEARKEFFSGHASFSMYTMLVLY 211  
DB 124 GSLRPHFLAICNPDPWSKINGSDGYIEDYICQNEEKVKEGRLSFYSGHSSFSMYCMLFVA 183

QY 212 LYLOARFTWGRARLLRPLLOFTLIMAFYTGLSRVSDHKHPSDVLGAGPAQCALVACCIV 271  
DB 184 LYLOARMKGDWARLLRPLMLOFGLIATFSIYVGLSRVSDYKHHSDVTVGLTQGAAMAILVA 243  
QY 272 FFVSDLPK 279  
DB 244 LYVSDFFK 251  
RESULT 6  
US-09-122-315C-18  
Sequence 18, Application US/09122315C  
Patent No. 6476294  
GENERAL INFORMATION:  
APPLICANT: Michael W. Lasser  
APPLICANT: Diane Ruezinsky  
TITLE OF INVENTION: Plant Phosphatidic Acid Phosphatases  
FILE REFERENCE: 17026/00/US  
CURRENT APPLICATION NUMBER: US/09/122,315C  
CURRENT FILING DATE: 1998-07-24  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: IBM PC; Windows NT 4.0; Microsoft Word for Windows 7.0a  
SEQ ID NO 18  
LENGTH: 323  
TYPE: PRT  
ORGANISM: artificial sequence  
FEATURE:  
OTHER INFORMATION: entire conserved region depicted in Figure 1  
NAME/KEY: unsure  
LOCATION: (1)..(323)  
OTHER INFORMATION: unsure at all Xaa locations  
US-09-122-315C-18

Query Match 30.4%; Score 496.5; DB 4; Length 323;  
Best Local Similarity 48.7%; Pred. No. 1.6e-50;  
Matches 114; Conservative 8; Mismatches 107; Indels 5; Gaps 4;  
QY 39 LDLCFLPMAGLPLLIETSTIKPYHRGFYCNDESISKYPLKTKGT-TINDAVLCVAVGIVAI 97  
DB 39 LDVXCXXXAGLPFXIXXXXXXXFPKRGXCNDSIKYFYXXEXTIXXALXXXIXXXI 98  
QY 98 LAITGEFYRIY-YLKKRSSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKSVIGRLRP 156  
DB 99 XXXIXGEXLXXYXXKXXSXXXNXYIAXYKVGXFLGXXXSQSKTDIAKXIGRLRP 158  
QY 157 HFLSVCNPDPSQINCEGYIQNYRC-RGDDSKVQEARKEFFSGHAS--FSMYTMLVLYLY 213  
DB 159 HFLXCNPDPKXKXNCXGXYIXXXXKXGNXXKXVXEGRXSFXSGHSSXFSMYXMXLXXLY 218  
QY 214 LOARFTWGRARLLRPLLOFTLIMAFYTGLSRVSDHKHPSDVLGAGPAQCALVA 267  
DB 219 LQARXXXXXARLXRPWXXFXXXXXXXXLSRXXDYHHXXVXXGXGXXGXXA 272

## RESULT 7

US-09-270-767-43247  
Sequence 43247, Application US/09270767  
Patent No. 6703491  
GENERAL INFORMATION:  
APPLICANT: Homburger et al.  
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
FILE REFERENCE: File Reference: 7326-094  
CURRENT APPLICATION NUMBER: US/09/270,767  
CURRENT FILING DATE: 1999-03-17  
NUMBER OF SEQ ID NOS: 62517  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 43247  
LENGTH: 412  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
FEATURE:  
OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-43247

Query Match 26.0%; Score 425; DB 4; Length 412;  
Best Local Similarity 34.5%; Pred. No. 8.5e-42;  
Matches 117; Conservative 58; Mismatches 114; Indels 50; Gaps 14;  
  
QY 3 NYKYD---KAIYPESKNGS---PALNNPRSGSKVL-LICLDLFCFLFMAGLPFL--I 53  
DB 75 NVKLDLQLPFTVDSTRSQSLYAVASNKXPLRGPQIFGRILTDCLLSCVGLPMLGFS 134  
  
QY 54 IETSTIKPYHRGYNDESIKPKTKGETINDAVLCAVGIVIAILAIITGEFVR---IV 109  
DB 135 LWGEAVK---RGFFCDSSLRHPR--DSTWPSWILYLMGALPLTVMVVEFRGGQKL 190  
  
QY 110 YLKKSSTIONPY-----VAALYKQVCGFLFCGCAISQSFTDIKVISIGRLRPHFL 159  
DB 191 HSPFPKSTWCSGYHLCHLELPTWVECYHRMGIFIFGLGVEQLSTNIAKYSIGRLRPHFV 250  
  
QY 160 SVCNPDFSQ-INCSE-----GYIQNYRCRGGD---SKVQEARSKFSGHASFMYTMYL 210  
DB 251 TLQCPVMKDGTTCSDPINAARYIEEFTCAAVDITSKOLKDMRLSPSGHASFACYSMLYL 310  
  
QY 211 VLYLQARFTWRGARLLRPLLOFTLIMMAFYTGLSRVSDHKHHPDVLGAGFAQG---ALVA 267  
DB 311 VYVLRHMWQKQLRMLCHLLQFLLMFANYTALTRVSDYKHWSVDVLGSGGLTYAVVV 370  
  
QY 268 CCIVFVSDI-----FKTKTSLSLPAPAIKRLSPVDII 302  
DB 371 TSTMWAGSLTRFGFTPTST-----HRVELLSLXDLV 402

## RESULT 8

US-09-360-376-16  
; Sequence 16, Application US/09360376  
; Patent No. 6495739  
; GENERAL INFORMATION:  
; APPLICANT: Lasser, Michael  
; APPLICANT: Ruzinsky, Diane  
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
; FILE REFERENCE: 17026/01/US  
; CURRENT APPLICATION NUMBER: US/09/360,376  
; PRIOR FILING DATE: 1999-07-23  
; PRIOR APPLICATION NUMBER: US 09/122,315  
; PRIOR FILING DATE: 1998-07-24  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 16  
; LENGTH: 322  
; TYPE: PRT  
; ORGANISM: Glycine sp.  
US-09-360-376-16

Query Match 14.7%; Score 239.5; DB 4; Length 322;  
Best Local Similarity 31.8%; Pred. No. 8.9e-20;  
Matches 75; Conservative 36; Mismatches 94; Indels 31; Gaps 10;  
  
QY 49 LPPLIET--STIKPYHR---GFYNDESIIKPKTKGETINDAVLCAVGIVIAILAIIT 102  
DB 30 LLLVVIDAVNLNLOPHRFVGEQMTD---LRYPLKA---NTIPFWAVPIIALLPLAV 82  
  
QY 103 GEFYRIYLLKKSSTIONPYVAALYKQVCGFLFCGCAISQSFTDIKVISIGRLRPHLSVC 162  
DB 83 --FLVYFIRKO-----VYDLHHAIMGLLSVLITAVMTDAIKDAGRPRDPFWRC 132  
  
QY 163 NPDFSQINCSGYIQNYRCRGGDSKVQEARSKFSGHASFMYTMYLVLVYLQAR---FT 219  
DB 133 FPDGKGV--FDPVTSNVLCITGDKGVIKEGHKSFPSGHTSWSFAGLVYLAWLSGKLRAFD 190  
  
QY 220 WRGARLLRPLLOFTLIMMAFYTGLSRVSDHKHHPDVLGAGFAQALVA---CCIVFF 273  
DB 191 RRG-HVAKLCLPLILVAAIAVSRVDDYWHHWDVFAAGLIGMIASFICYLQFF 245

## RESULT 9.

US-09-360-376-17  
; Sequence 17, Application US/09360376  
; Patent No. 6495739  
; GENERAL INFORMATION:  
; APPLICANT: Lasser, Michael  
; APPLICANT: Ruzinsky, Diane  
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
; FILE REFERENCE: 17026/01/US  
; CURRENT APPLICATION NUMBER: US/09/360,376  
; PRIOR FILING DATE: 1999-07-23  
; PRIOR APPLICATION NUMBER: US 09/122,315  
; PRIOR FILING DATE: 1998-07-24  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 17  
; LENGTH: 343  
; TYPE: PRT  
; ORGANISM: Glycine sp.  
US-09-360-376-17

Query Match 14.5%; Score 236; DB 4; Length 343;  
Best Local Similarity 31.8%; Pred. No. 2.6e-19;  
Matches 75; Conservative 33; Mismatches 104; Indels 24; Gaps 8;  
  
QY 44 LFMAGLPFLIETSTIKPYHRGFCYND--ESIKYPLKTKGETINDAVLCAVGIVIAILAI 101  
DB 51 LILLLLLVIVISLYIHPFHR-FVGKMMMTDLKYPLKS---NTVPAAWAPIYAILLPV 105  
  
QY 102 TGEFYRIYLLKKSSTIONPYVAALYKQVCGFLFCGCAISQSFTDIKVISIGRLRPHLSV 161  
DB 106 I--FLGVIRRD-----VYDLHHAIVLGLLSVLITAVTEIKRAGVRPRDPFWR 155  
  
QY 162 CNPDFSQINCSGYIQNYRCRGGDSKVQEARSKFSGHASFMYTMYLVLVYLQARFTW- 220  
DB 156 CFPDGKGVYDWG---DVICHGDKQVKEGYKSFPSGHTSGSGLGFLSLVSGKIKAF 212  
  
QY 221 -RGARLLRPLLOFTLIMMAFYTGLSRVSDHKHHPDVLGAGFAQALVA---CCIVFF 273  
DB 213 DRKGHVAKLCIVFLPLVSLVGLSRVDDYWHHWDVFAAGLGLTAVTATCYLQFF 268

## RESULT 10

US-09-360-376-13  
; Sequence 13, Application US/09360376  
; Patent No. 6495739  
; GENERAL INFORMATION:  
; APPLICANT: Lasser, Michael  
; APPLICANT: Ruzinsky, Diane  
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
; FILE REFERENCE: 17026/01/US  
; CURRENT APPLICATION NUMBER: US/09/360,376  
; CURRENT FILING DATE: 1999-07-23  
; PRIOR FILING DATE: 1999-07-23  
; PRIOR APPLICATION NUMBER: US 09/122,315  
; PRIOR FILING DATE: 1998-07-24  
; NUMBER OF SEQ ID NOS: 55  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 13  
; LENGTH: 348  
; TYPE: PRT  
; ORGANISM: Arabidopsis sp.  
US-09-360-376-13

Query Match 13.9%; Score 227.5; DB 4; Length 348;  
Best Local Similarity 31.8%; Pred. No. 2.7e-18;  
Matches 78; Conservative 38; Mismatches 80; Indels 49; Gaps 12;  
  
QY 34 VLLICLDLFCFLFMAGLPFLIETSTIKPYHRGFCYCNDE---SIKYPKTKGETINDAVLCA 90  
DB 76 VLLIAIEI-----GL-----NLISPPYR--YVGKMMMTDLKYPLKD-----NTVPIWS 116  
  
QY 91 VGVIVIAILAIITGEFYRIYLLKKSSTIONPYVAALYKQVCGFLFCGCAISQSFTDIKVIS 150  
DB 117 VPVAVLLPIIV---FVCFYLRKT-----CVYDLHHSILGLLFAVLITGVITDSIKVA 166





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 2, 2005, 21:46:06 ; Search time 92.2777 Seconds  
(without alignments)  
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Perfect score: 1633  
Sequence: 1 MONKYDKAIVPESKNGSP.....RKEILSPVDIIDRNHHNNM 311

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues  
Total number of hits satisfying chosen parameters: 1865214

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1633	100.0	311	17	US-10-812-238A-13
2	1627	99.6	311	16	US-10-655-601-2
3	716.5	43.9	284	18	US-10-764-425-157
4	712	43.6	289	16	US-10-643-795A-136
5	712	43.6	289	17	US-10-948-518-136
6	702	43.0	285	16	US-10-655-601-1
7	618	37.8	274	18	US-10-491-467-49
8	574.5	35.2	221	15	US-10-287-226-346
9	574.5	35.2	221	15	US-10-287-226-348
10	532	32.6	372	20	US-11-097-143-2046
11	426	26.1	340	20	US-11-097-143-14997
					Sequence 13, Appli
					Sequence 2, Appli
					Sequence 157, App
					Sequence 136, App
					Sequence 136, App
					Sequence 1, Appli
					Sequence 49, Appli
					Sequence 346, App
					Sequence 348, App
					Sequence 2046, Ap
					Sequence 14997, A

12	401.5	24.6	341	20	US-11-097-143-41346	Sequence 41346, A
13	390	23.9	246	20	US-11-097-143-912	Sequence 912, App
14	361.5	22.1	326	17	US-10-204-921-58	Sequence 58, Appl
15	339	20.8	334	20	US-11-097-143-24018	Sequence 24018, A
16	321.5	19.7	321	15	US-10-343-357-5	Sequence 5, Appli
17	313	19.2	292	16	US-10-476-232-2	Sequence 2, Appli
18	311	19.0	577	15	US-10-094-749-2701	Sequence 2701, Ap
19	309.5	19.0	305	20	US-11-097-143-41352	Sequence 41352, A
20	298.5	18.3	220	14	US-10-106-698-5750	Sequence 5750, Ap
21	284	17.4	305	20	US-11-097-143-41349	Sequence 41349, A
22	279.5	17.1	427	15	US-10-108-260A-2833	Sequence 2833, Ap
23	274.5	16.8	187	16	US-10-476-232-3	Sequence 3, Appli
24	273.5	16.7	318	18	US-10-491-467-52	Sequence 52, Appl
25	249.5	15.3	180	9	US-09-860-670-125	Sequence 125, App
26	249.5	15.3	180	14	US-10-103-313-490	Sequence 490, App
27	249.5	15.3	180	15	US-10-227-646-125	Sequence 125, App
28	249.5	15.3	183	14	US-10-103-313-340	Sequence 340, App
29	249	15.2	318	15	US-10-369-493-6893	Sequence 6893, Ap
30	246.5	15.1	603	14	US-10-103-313-493	Sequence 493, App
31	244.5	15.0	607	16	US-10-723-860-3797	Sequence 3797, Ap
32	239.5	14.7	333	15	US-10-425-114-43046	Sequence 43046, A
33	236	14.5	343	15	US-10-424-599-276804	Sequence 276804, A
34	235.5	14.4	322	15	US-10-424-599-207810	Sequence 207810, A
35	232.5	14.2	377	15	US-10-425-114-47060	Sequence 47060, A
36	231.5	14.2	89	14	US-10-029-386-29445	Sequence 29445, A
37	231	14.1	247	16	US-10-437-963-152388	Sequence 152388, A
38	231	14.1	311	16	US-10-425-115-203641	Sequence 203641, A
39	230.5	14.1	310	16	US-10-425-115-203640	Sequence 203640, A
40	230.5	14.1	318	15	US-10-425-114-70549	Sequence 70549, A
41	230.5	14.1	324	15	US-10-425-114-41280	Sequence 41280, A
42	227	13.9	309	16	US-10-767-701-44853	Sequence 44853, A
43	227	13.9	310	16	US-10-425-115-239676	Sequence 239676, A
44	227	13.9	368	15	US-10-425-114-64697	Sequence 64697, A
45	218	13.3	369	16	US-10-437-963-121968	Sequence 121968, A

ALIGNMENTS

RESULT 1  
US-10-812-238A-13  
; Sequence 13, Application US/10812238A  
; Publication No. US20050002904A1  
; GENERAL INFORMATION:  
; APPLICANT: Wary, Kishore, K.  
; APPLICANT: Humtsoe, Joseph O.  
; TITLE OF INVENTION: Uses of Vascular Endothelial Growth Factor  
; TITLE OF INVENTION: and Type I Collagen Inducible Protein (VCIP)  
; FILE REFERENCE: D6563  
; CURRENT APPLICATION NUMBER: US/10/812,238A  
; PRIOR FILING DATE: 2004-03-29  
; PRIOR APPLICATION NUMBER: US 60/458,164  
; PRIOR FILING DATE: 2003-03-27  
; NUMBER OF SEQ ID NOS: 36  
; SEQ ID NO 13  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; NAME/KEY: CHAIN  
; OTHER INFORMATION: human VCIP  
US-10-812-238A-13

Query Match	100.0%	Score	1633	DB	17	Length	311
Best Local Similarity	100.0%	Pred. No.	4.2e-165				
Matches	311	Conservative	0	Mismatches	0	Indels	0
		Gaps	0				
Qy	1	MONKYDKAIVPESKNGSPALNNPRRSGSKRVLLICLDLFCFLWAGLPFLIETSTIK	60				
Db	1	MONKYDKAIVPESKNGSPALNNPRRSGSKRVLLICLDLFCFLWAGLPFLIETSTIK	60				
Qy	61	PYHGFYCNDESGIKYPLKGTETINDAVLCAGVIVIAILAITGEPYRIYVYLLKKSRTIQN	120				

Db 61 PYHRGYCNDESIKYPLKTGETINDAVLCVAGVIAIALIITGEFYRIYVYLLKKSRTIQN 120  
QY 121 PYVAALYKQVGCFLFCAISQSFTDIKAVSIGRLRPHFLSVCPNDFSQINCSGEGYIQNYR 180  
Db 121 PYVAALYKQVGCFLFCAISQSFTDIKAVSIGRLRPHFLSVCPNDFSQINCSGEGYIQNYR 180  
QY 181 CRGDDSKVQEARSKFSFGHASFMSYMTLVLYLVYLOARFTWRGRLRLPQLQFTLIMAFY 240  
Db 181 CRGDDSKVQEARSKFSFGHASFMSYMTLVLYLVYLOARFTWRGRLRLPQLQFTLIMAFY 240  
QY 241 TGLSRVSDHKHPSDVLGFAQCALVACCIVFFVSDLFKTKTTLSPAPAIRKEILSPVD 300  
Db 241 TGLSRVSDHKHPSDVLGFAQCALVACCIVFFVSDLFKTKTTLSPAPAIRKEILSPVD 300  
QY 301 IIDRNHNHNM 311  
Db 301 IIDRNHNHNM 311

## RESULT 2

US-10-655-601-2  
; Sequence 2, Application US/10655601  
; Publication No. US20040137522A1  
; GENERAL INFORMATION:  
; APPLICANT: Feany, Mel B.  
; APPLICANT: Shulman, Joshua M.  
; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy  
; FILE REFERENCE: 7570/73251  
; CURRENT APPLICATION NUMBER: US/10/655,601  
; CURRENT FILING DATE: 2003-09-05  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-655-601-2

Query Match 99.6%; Score 1627; DB 16; Length 311;  
Best Local Similarity 99.7%; Pred. No. 1.8e-164;  
Matches 310; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MONYKYDKAIVPESKNGGSPALNNRRSGSKVLLICLDLFLFAGLPLFLIETSTIK 60  
Db 1 MONYKYDKAIVPESKNGGSPALNNRRSGSKVLLICLDLFLFAGLPLFLIETSTIK 60  
QY 61 PYHRGYCNDESIKYPLKTGETINDAVLCVAGVIAIALIITGEFYRIYVYLLKKSRTIQN 120  
Db 61 PYHRGYCNDESIKYPLKTGETINDAVLCVAGVIAIALIITGEFYRIYVYLLKKSRTIQN 120  
QY 121 PYVAALYKQVGCFLFCAISQSFTDIKAVSIGRLRPHFLSVCPNDFSQINCSGEGYIQNYR 180  
Db 121 PYVAALYKQVGCFLFCAISQSFTDIKAVSIGRLRPHFLSVCPNDFSQINCSGEGYIQNYR 180  
QY 181 CRGDDSKVQEARSKFSFGHASFMSYMTLVLYLVYLOARFTWRGRLRLPQLQFTLIMAFY 240  
Db 181 CRGDDSKVQEARSKFSFGHASFMSYMTLVLYLVYLOARFTWRGRLRLPQLQFTLIMAFY 240  
QY 241 TGLSRVSDHKHPSDVLGFAQCALVACCIVFFVSDLFKTKTTLSPAPAIRKEILSPVD 300  
Db 241 TGLSRVSDHKHPSDVLGFAQCALVACCIVFFVSDLFKTKTTLSPAPAIRKEILSPVD 300  
QY 301 IIDRNHNHNM 311  
Db 301 IIDRNHNHNM 311

## RESULT 3

US-10-764-425-157  
; Sequence 157, Application US/10764425  
; Publication No. US20040146921A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Pharmaceuticals Corporation

; APPLICANT: Eveleigh, Deepa  
; APPLICANT: Bigwood, Douglas  
; APPLICANT: Taylor, Ian  
; TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE  
; FILE REFERENCE: 5151  
; CURRENT APPLICATION NUMBER: US/10/764,425  
; CURRENT FILING DATE: 2004-01-23  
; PRIOR APPLICATION NUMBER: 60/442,582  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 191  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 157  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-764-425-157

Query Match 43.9%; Score 716.5; DB 18; Length 284;  
Best Local Similarity 57.1%; Pred. No. 1.8e-67;  
Matches 144; Conservative 38; Mismatches 67; Indels 3; Gaps 3;

QY 33 RVLLICLDLFLFAGLPLFLIETSTIKPYHRGYCNDESIKYPLKTGETINDAVLCVAG 92  
Db 6 RLPYVALDVLVLLAGLPAIL-TSRHTFFQRGVFCNDESIKYPYKE-DTIPYALLGGII 63  
QY 93 IVIAILAITGEFYRIY-YLKKSRTIQNYVAALYKQVGCFLFCAISQSFTDIKAVSI 151  
Db 64 IFFSIIVILGETLSVYNLLHNSFIRNNYIATYIKAITGTLFGAAASQSLTDIAKYSI 123  
QY 152 GLRLRPHFLSVCPNDFSQINCSGEGYQNYRCRGGDSKVQEARSKFSFGHASFMSYMTLVLY 211  
Db 124 GLRLRPHFLSVCPNDFSQINCSGEGYQNYRCRGGDSKVQEARSKFSFGHASFMSYMTLVLY 183  
QY 212 LYLQARFTWRGRLRLPQLQFTLIMAFYVGLSRVSDYKHGHSVDVLGFAQCALVACCIV 271  
Db 184 LYLQARFTWRGRLRLPQLQFTLIMAFYVGLSRVSDYKHGHSVDVLGFAQCALVACCIV 243  
QY 272 FVVSDFLFTKTT 283  
Db 244 VVVSDFLFTKTT 255

## RESULT 4

US-10-643-795A-136  
; Sequence 136, Application US/10643795A  
; Publication No. US20040241703A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN FRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU  
; APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF TUMOR  
; FILE REFERENCE: P5026R1-US  
; CURRENT APPLICATION NUMBER: US/10/643,795A  
; CURRENT FILING DATE: 2003-08-19  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-08-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/413,192  
; PRIOR FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: US 60/419,008  
; PRIOR FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: US 60/426,847  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US 60/484,959  
; PRIOR FILING DATE: 2003-07-02







Best Local Similarity 61.1%; Pred. No. 1.8e-52;  
Matches 113; Conservative 25; Mismatches 46; Indels 1; Gaps 1;  
QY 100 IITGEFYRIY-YLKKSSTIONPYAALYKQVCGFLFGCAISQSFDTIAKVISGRLRPHF 158  
Db 8 IILGETLSVYCNLLHNSFIRNNYIATYIKATGTLFNGAASQSLTDIAKYSIGRLRPHF 67  
QY 159 LSVCPNDFQINSGEYQNYRCRGGDSKYQVQARKSFHSGHAFSMYTMVLVLYLQARF 218  
Db 68 LDVCDPMSKINGSDGIEYICGNAERVKEGELSFYSHSFSMYCMLFVALYLQARM 127  
QY 219 TWGCARLLRPLLOFTLIMAFYTGLSRVSDHKHPSDVLGAFQAQALVACCVFFVSDLF 278  
Db 128 KGDWARLLRPTLQGLVAVSIYVGLSRVSDYKHHWSVDLTGLIQGALVAILVAVVYSDFF 187  
QY 279 KTKTT 283  
Db 188 KERTS 192

RESULT 9  
US-10-287-226-348  
; Sequence 348, Application US/10287226  
; Publication No. US20040086875A1  
; GENERAL INFORMATION:  
; APPLICANT: Agee, Michele L.,  
; APPLICANT: Alsobrook, John P.,  
; APPLICANT: Berghs, Constance,  
; APPLICANT: Boldog, Ference,  
; APPLICANT: Burgess, Catherine E.,  
; APPLICANT: Chant, John S.,  
; APPLICANT: Chaudhuri, Amitabha,  
; APPLICANT: DiPippo, Vincent A.,  
; APPLICANT: Edinger, Shlomit R.,  
; APPLICANT: Eisen, Andrew,  
; APPLICANT: Ellerman, Karen,  
; APPLICANT: Gangolli, Esha A.,  
; APPLICANT: Gorman, Linda,  
; APPLICANT: Gerlach, Valerie,  
; APPLICANT: Ji, Weizhen,  
; APPLICANT: Kekuda, Ramesh,  
; APPLICANT: Khramtsov, Nikolai,  
; APPLICANT: Li, Li,  
; APPLICANT: Malyankar, Uriel M.,  
; APPLICANT: MacDougall, John R.,  
; APPLICANT: Mezes, Peter S.,  
; APPLICANT: Miller, Charles E.,  
; APPLICANT: Millet, Isabelle,  
; APPLICANT: Ooi, Chean Eng,  
; APPLICANT: Ort, Tatiana,  
; APPLICANT: Padigaru, Muralidhara,  
; APPLICANT: Patturajan, Meera,  
; APPLICANT: Rastelli, Luca,  
; APPLICANT: Rieger, Daniel K.,  
; APPLICANT: Rothenberg, Mark E.,  
; APPLICANT: Shenoy, Suresh G.,  
; APPLICANT: Spaderna, Steven K.,  
; APPLICANT: Spytek, Kimberley A.,  
; APPLICANT: Taupier, Jr., Raymond J.,  
; APPLICANT: Vernet, Corine A.M.,  
; APPLICANT: Zerhusen, Bryan D.,  
; APPLICANT: Zhong, Mei  
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-480C  
; CURRENT APPLICATION NUMBER: US/10/287,226  
; CURRENT FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/334,421  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,392  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/360,148  
; PRIOR FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: 60/364,000

; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/404,821  
; PRIOR FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: 60/334,526  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,409  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/364,227  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/334,027  
; PRIOR FILING DATE: 2001-11-28  
; PRIOR APPLICATION NUMBER: 60/331,641  
; PRIOR FILING DATE: 2001-11-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 673  
; SOFTWARE: Curaseqlist version 0.1  
; SEQ ID NO 348  
; LENGTH: 221  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-287-226-348  
Query Match 35.2%; Score 574.5; DB 15; Length 221;  
Best Local Similarity 61.1%; Pred. No. 1.8e-52;  
Matches 113; Conservative 25; Mismatches 46; Indels 1; Gaps 1;  
QY 100 IITGEFYRIY-YLKKSSTIONPYAALYKQVCGFLFGCAISQSFDTIAKVISGRLRPHF 158  
Db 8 IILGETLSVYCNLLHNSFIRNNYIATYIKATGTLFNGAASQSLTDIAKYSIGRLRPHF 67  
QY 159 LSVCPNDFQINSGEYQNYRCRGGDSKYQVQARKSFHSGHAFSMYTMVLVLYLQARF 218  
Db 68 LDVCDPMSKINGSDGIEYICGNAERVKEGELSFYSHSFSMYCMLFVALYLQARM 127  
QY 219 TWGCARLLRPLLOFTLIMAFYTGLSRVSDHKHPSDVLGAFQAQALVACCVFFVSDLF 278  
Db 128 KGDWARLLRPTLQGLVAVSIYVGLSRVSDYKHHWSVDLTGLIQGALVAILVAVVYSDFF 187  
QY 279 KTKTT 283  
Db 188 KERTS 192  
RESULT 10  
US-11-097-143-2046  
; Sequence 2046, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2046
; LENGTH: 372
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-2046

Query Match      32.6%; Score 532; DB 20; Length 372;
Best Local Similarity 41.8%; Pred. No. 1.2e-47;
Matches 124; Conservative 47; Mismatches 96; Indels 30; Gaps 8;

QY 31 SKRVLL-ICLDLFCFLPMAGLPLLIETSTIKVHRGFCYCNDSIKYPLKTGETINDAVLC 89
Db 76 NKRILCRVLGLLILCAGPILLFFELG-EPYKRGFFCDDSLKHPFH-DSTVRNMLY 133
QY 90 AVGIVIAILAITGEFYRIYLLKRSSTIQN-----PYVAALYKQVGCFLF 135
Db 134 FIGAVIPGVIFIVEV--IISQNKAKQDNGNATSRVYVFMVELPDWMIIECYKKIGIYAF 191
QY 136 GCAISQSFDTIAKVSIGRLRPHFLSVNPDFSQ-----INCSEGYIQNYRCRGDDSK- 187
Db 192 GAVLSQLTDTIAKYSIGRLRPHFIAVCQPMADGSTCDDAINAGK-YIQEFTCKGVGSSA 250
QY 188 --VOEARKSFFSCHASFSMTWMLYLYLQARFTWRGABLLRPLLOFTLIMMAFYTGLSR 245
Db 251 RMLKEMRLSFPFSGHSSTFFAMVYLYLQARMTWRGSKLLRHLQLFLLFIMVAVYATLSR 310
QY 246 VSDKHHPSDVLGAFQAQALVACCVIFFVSDLPFKTKTTLSPALPAIRKEILSPVDII 302
Db 311 VSDYKHHSVDVLGSLIGSISALVANYVSDLFQKENTKPYLARTVQDMNASPAQAI 367

RESULT 11
US-11-097-143-14997
; Sequence 14997, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14997
; LENGTH: 340
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-14997

Query Match      26.1%; Score 426; DB 20; Length 340;
Best Local Similarity 34.2%; Pred. No. 2.2e-36;
Matches 104; Conservative 67; Mismatches 95; Indels 38; Gaps 13;

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2046
; LENGTH: 372
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-2046

Query Match      32.6%; Score 532; DB 20; Length 372;
Best Local Similarity 41.8%; Pred. No. 1.2e-47;
Matches 124; Conservative 47; Mismatches 96; Indels 30; Gaps 8;

QY 31 SKRVLL-ICLDLFCFLPMAGLPLLIETSTIKVHRGFCYCNDSIKYPLKTGETINDAVLC 89
Db 76 NKRILCRVLGLLILCAGPILLFFELG-EPYKRGFFCDDSLKHPFH-DSTVRNMLY 133
QY 90 AVGIVIAILAITGEFYRIYLLKRSSTIQN-----PYVAALYKQVGCFLF 135
Db 134 FIGAVIPGVIFIVEV--IISQNKAKQDNGNATSRVYVFMVELPDWMIIECYKKIGIYAF 191
QY 136 GCAISQSFDTIAKVSIGRLRPHFLSVNPDFSQ-----INCSEGYIQNYRCRGDDSK- 187
Db 192 GAVLSQLTDTIAKYSIGRLRPHFIAVCQPMADGSTCDDAINAGK-YIQEFTCKGVGSSA 250
QY 188 --VOEARKSFFSCHASFSMTWMLYLYLQARFTWRGABLLRPLLOFTLIMMAFYTGLSR 245
Db 251 RMLKEMRLSFPFSGHSSTFFAMVYLYLQARMTWRGSKLLRHLQLFLLFIMVAVYATLSR 310
QY 246 VSDKHHPSDVLGAFQAQALVACCVIFFVSDLPFKTKTTLSPALPAIRKEILSPVDII 302
Db 311 VSDYKHHSVDVLGSLIGSISALVANYVSDLFQKENTKPYLARTVQDMNASPAQAI 367

RESULT 12
US-11-097-143-41346
; Sequence 41346, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41346
; LENGTH: 341
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-41346

Query Match      24.6%; Score 401.5; DB 20; Length 341;
Best Local Similarity 37.1%; Pred. No. 8.8e-34;
Matches 96; Conservative 49; Mismatches 91; Indels 23; Gaps 8;

QY 60 KPYHGFYCNDSIKYPLKTGETINDAVLCAGVIAILAITGEFYR-----IYLLKK 113
Db 32 RFRFRGFCGDETLSPARDG-TISKKVIAIIVLGVNNAVIVVVELFOLPGPGPREAGG 90
QY 114 SRSTIQNPY-VAALYKQVGCFLFGCAISQSFDTIAKVSIGRLRPHFLSVN---PDFSQI 169
Db 91 KEDSCRIARHLGLVLRQVIFYLYGLAMVTFTTMTLTKLCIGRLRPHFLAVCQPMPLDGS-- 148
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Qy	121	PVYAALYKVGCFELGCAISQSFDTIAKVSGRLRPHFLSCVNPDPFSQINCS--EGYION	178
Db	120	PLLRRIIRFTGVFAEGLFATDIFVNAGOVVTGHLTPYFLTVCKENYTSADCAHQHFINN	179
Qy	179	YR-CRGDDSKVOEAKSKSPFSGHASPMSYTMLYLVLYLQARFTWRGALLRPLQLFTLMM	237
Db	180	GNICTGDLVIEKARSPSKHAALUSIYSALYATMYITSTIKTKSSRLAKPVLCLGTCT	239
Qy	238	AFVYTLGSLRVSDBKHHKPSVDVLAGEAOGALVACCIFFVFSDLFK-TKTTLSLPAPAIRK--	293
Db	240	AFITGLNRRVSEYRNHCSDVIAGFILGTAVALFLGVCVHNFKGTQGSPSKPKEXPRGVP	299
Qy	294	-----EILSPVDIIRNNHHNNM	311
Db	300	LMAFPRIESPLETLSAQNHASM	322

Qy 290 AIRKEILSPVDIIDRNHHNMM 311  
| : || : |  
db 236 -----PSLNYSHLHOLM 249

Search completed: November 2, 2005, 22:16:38  
Job time : 93.2777 secs

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RESULT 15
US-11-097-143-24018
; Sequence 24018, Application US/110971143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
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; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24018
; LENGTH: 334
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-24018

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Query Match	20.8%;	Score 339;	DB 20;	Length 334;
Best Local Similarity	33.2%;	Pred. No. 3.9e-27;		
Matches	87;	Conservative 48;	Mismatches 99;	Indels 28; Gaps 8
Qy	62	YHRGFCYNDSEIKYPLKTGETINDAVLCAVGIVTIALAILITGEFYRIYLLKKSRSITQNP	121	
Db	4	FKRGFCSDLSIRYPYKDC-TITVPMILLMLLLPMLFVAVVEIMRI--CKRFETRL---	57	
Qy	122	VYAALYKQVCGFLFGCAISQSSTDIAKVISIGRLRPHFLSVCNP-----DFSQINCSGY	175	
Db	58	YFRNLWRAEATFSFGFIATYLTTELAKHIAVGLRLPHFPFHGQCPRLLDDGSSCSDLQNAELY	117	
Qy	176	IONYRCRGDD---SKVQEARKSFFSGHSAFSFMYTLVLYLVQLQARFTWR---GALLRLPL	229	
Db	118	VEQFHTNNNLSTQRIELHVSFPAHSLSLFSYSMVLLALYVHG--VVRGGGVYRLRVH	175	
Qy	230	LQFTLIMAFYTLGRVSDHGHHPDSVLVLAGFAQGVACCIVFVSDLFKTKTLLSLPAP	289	
Db	176	LQPLLLMAALCVSLSRVADYWHHWSDDVLGALLGVYAAITAAAYVGNLLARQTSSTGRIP	235	

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 2, 2005, 21:27:15 ; Search time 17.5043 Seconds  
(without alignments)  
1215.413 Million cell updates/sec

Title: US-08-842-827-4

Perfect score: 1499

Sequence: 1 MFDKTRLPYVALDVLCVLLA.....HTTLHETPTTGNHPSNHQP 285

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1485	99.1	285	3	US-08-992-035A-1
2	1105	73.7	283	3	US-08-992-035A-3
3	1105	73.7	283	4	US-09-360-376-53
4	1084.5	72.3	282	4	US-09-360-376-54
5	513	34.2	233	4	US-09-360-376-55
6	498.5	33.3	323	4	US-09-122-315C-18
7	418	27.9	412	4	US-09-270-767-43247
8	260	17.3	348	4	US-09-360-376-13
9	247.5	16.5	290	4	US-09-360-376-12
10	247	16.5	343	4	US-09-360-376-17
11	240	16.0	314	4	US-09-360-376-14
12	234.5	15.6	322	4	US-09-360-376-16
13	230.5	15.4	310	4	US-09-360-376-15
14	193	12.9	289	4	US-09-360-376-52
15	191.5	12.8	243	4	US-09-248-796A-15660
16	181.5	12.1	274	4	US-09-538-092-217
17	180.5	12.0	286	4	US-09-248-796A-15661
18	115.5	7.7	126	4	US-09-621-976-4116
19	99.5	6.6	305	4	US-09-710-279-2536
20	97	6.5	556	4	US-09-815-923-6
21	94	6.3	429	4	US-09-351-150A-5
22	91.5	6.1	502	4	US-09-134-000C-6114
23	91	6.1	3011	4	US-10-104-966-1
24	90	6.0	174	4	US-09-107-532A-4715
25	87.5	5.8	234	4	US-09-902-540-11032
26	87	5.8	2894	2	US-08-466-975A-23
27	87	5.8	2894	2	US-08-391-671A-23

28	87	5.8	2894	3	US-08-467-902A-23	Sequence 23, Appl
29	87	5.8	2894	3	US-09-275-265-23	Sequence 23, Appl
30	87	5.8	2894	4	US-09-941-611-23	Sequence 23, Appl
31	86	5.7	3011	3	US-08-811-566-20	Sequence 20, Appl
32	86	5.7	3011	3	US-09-014-416-1	Sequence 1, Appl
33	86	5.7	3011	3	US-09-014-416-5	Sequence 5, Appl
34	86	5.7	3011	3	US-09-034-756-20	Sequence 20, Appl
35	86	5.7	3011	4	US-09-952-572-9	Sequence 9, Appl
36	86	5.7	3012	3	US-08-811-566-2	Sequence 2, Appl
37	86	5.7	3012	3	US-09-034-756-2	Sequence 2, Appl
38	85.5	5.7	662	4	US-09-252-991A-22861	Sequence 22861, A
39	85	5.7	445	4	US-09-902-540-16491	Sequence 16491, A
40	84.5	5.6	1769	4	US-09-949-016-8280	Sequence 8280, Ap
41	84.5	5.6	1769	4	US-09-949-016-8281	Sequence 8281, Ap
42	84.5	5.6	1769	4	US-09-949-016-8282	Sequence 8282, Ap
43	84.5	5.6	1813	4	US-09-949-016-8283	Sequence 8283, Ap
44	84.5	5.6	1813	4	US-09-949-016-8284	Sequence 8284, Ap
45	84.5	5.6	1813	4	US-09-949-016-8285	Sequence 8285, Ap

#### ALIGNMENTS

RESULT 1  
US-08-992-035A-1  
; Sequence 1, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 285 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT06  
; CLONE: 1719418  
; US-08-992-035A-1

Query Match 99.1%; Score 1485; DB 3; Length 285;  
Best Local Similarity 98.6%; Pred. No. 1, 7e-152;  
Matches 281; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
DB 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
QY 61 ILVGGLPVSSII--LGETLSVYCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIA 120  
DB 61 ILVGGLPVSSII--LGETLSVYCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIA 120  
QY 121 KYSIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMYCM 180  
DB 121 KYSIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMYCM 180  
QY 181 LFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVA 240  
DB 181 LFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVA 240  
QY 241 ILVAVYVSDFFKERTSFKERKEDSHTTLHETPTTGNHYPNSHQ 285  
DB 241 ILVAVYVSDFFKERTSFKERKEDSHTTLHETPTTGNHYPNSHQ 285

## RESULT 2

US-08-992-035A-3

; Sequence 3, Application US/08992035A

; Patent No. 6242179

; GENERAL INFORMATION:

; APPLICANT: Shah, Purvi

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Corley, Neil C.

; APPLICANT: Lal, Preeti

; TITLE OF INVENTION: HUMAN PHOSPHATASES

; NUMBER OF SEQUENCES: 6

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Dr.

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/992,035A

; FILING DATE: December 17, 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J.

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0433 US.

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 650-855-0555

; TELEFAX: 650-845-4166

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 283 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: GENBANK

; CLONE: 1487873

; US-08-992-035A-3

Query Match

Best Local Similarity 73.7%; Score 1105; DB 3; Length 283;

Matches 211; Conservative 30; Mismatches 40; Indels 6; Gaps 4;

QY 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
DB 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
QY 61 ILVGGLPVSSII--LGETLSVYCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTD 118  
DB 58 LGGIVIPFCIIIVMSIGESLSYFVNLHNSFVGNPYIATYKAVGAFILFGVSASQSLTD 117  
QY 119 IAKYISIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMY 178  
DB 118 IAKYISIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMY 177  
QY 179 CMLFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAL 238  
DB 178 CMLFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAA 237  
QY 239 VAILVAVYVSDFFKERTSFKERKEDSHTTLHETPTTGNHYPNSHQ 285  
DB 238 MAILVAVYVSDFFKERTSFKERKEDSHTTLHETASSRN-YSTNHQP 283

## RESULT 3

US-09-360-376-53

; Sequence 53, Application US/09360376

; Patent No. 6495739

; GENERAL INFORMATION:

; APPLICANT: Lassner, Michael

; APPLICANT: Ruzinsky, Diane

; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES

; FILE REFERENCE: 17026/01/US

; CURRENT APPLICATION NUMBER: US/09/360,376

; CURRENT FILING DATE: 1999-07-23

; PRIOR APPLICATION NUMBER: US 09/122,315

; PRIOR FILING DATE: 1998-07-24

; NUMBER OF SEQ ID NOS: 55

; SOFTWARE: Patentin version 3.0

; SEQ ID NO 53

; LENGTH: 283

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-360-376-53

Query Match

Best Local Similarity 73.7%; Score 1105; DB 4; Length 283;

Matches 211; Conservative 30; Mismatches 40; Indels 6; Gaps 4;

QY 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
DB 1 MEDKTRLPYVALDVLCVLLASMPMAVLKLGQIYPPQRFCKDINSINYPHDSTAATVL 60  
QY 61 ILVGGLPVSSII--LGETLSVYCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTD 118  
DB 58 LGGIVIPFCIIIVMSIGESLSYFVNLHNSFVGNPYIATYKAVGAFILFGVSASQSLTD 117  
QY 119 IAKYISIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMY 178  
DB 118 IAKYISIGRLRPHFLDVCDPDKSKINCSDGYIEYICRGNARVKEGRISFYSGHSSFSMY 177  
QY 179 CMLFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAL 238  
DB 178 CMLFVALYLQARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAA 237  
QY 239 VAILVAVYVSDFFKERTSFKERKEDSHTTLHETPTTGNHYPNSHQ 285  
DB 238 MAILVAVYVSDFFKERTSFKERKEDSHTTLHETASSRN-YSTNHQP 283

## RESULT 4

US-09-360-376-54

; Sequence 54, Application US/09360376

; Patent No. 6495739

; GENERAL INFORMATION:

; APPLICANT: Lassner, Michael

; APPLICANT: Ruezinsky, Diane  
 ; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
 ; FILE REFERENCE: 17026/01/US  
 ; CURRENT APPLICATION NUMBER: US/09/360,376  
 ; CURRENT FILING DATE: 1999-07-23  
 ; PRIOR APPLICATION NUMBER: US 09/122,315  
 ; PRIOR FILING DATE: 1998-07-24  
 ; NUMBER OF SEQ ID NOS: 55  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 54  
 ; LENGTH: 282  
 ; TYPE: PRT  
 ; ORGANISM: Rattus sp.  
 US-09-360-376-54

Query Match 72.3%; Score 1084.5; DB 4; Length 282;  
 Best Local Similarity 73.5%; Pred. No. 4.3e-109;  
 Matches 211; Conservative 27; Mismatches 42; Indels 7; Gaps 5;  
 QY 1 MFDKRLPYVALDVLCLVLLASMPMAVLKGLQIYPPFORGFCKDINSINYPYHDSTAATVTL 60  
 DB 1 MFDKRLPYVLDVLCVLLAGLFFIL-TSRHTPPFORGVCTDESIKYPREDTI--PYA 57  
 QY 61 ILVGVGLPVSSIL--GETLSVVCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTD 118  
 DB 58 LLGGIVIPFCIIWITGETLSVVFVNLHNSFVSNHYIATYKAVGAFLLFGASASQSLTD 117  
 QY 119 IAKYSIGRLPHFLDVCDDPWSKINGSDGIEYICRGNAERVKEGRLSPYSGHSFMSY 178  
 DB 118 IAKYSIGRLPHFLAVCNPDWSKINGSDGIEYFVCGNQKVRGRLSPYSGHSFMSY 177  
 QY 179 CMLFVALYLQARMKGDWARLLRPTLOGLVAVSIYVGLSRVSDYKHHWSVLTGLIQQAL 238  
 DB 178 CMLFVALYLQARMKGDWARLLRPTLOGLVAVSIYVGLSRVSDYKHHWSVLTGLIQQAV 237  
 QY 239 VAILVAVVYSDFFKERTSFKEKEEDSHHTLTHTPTTGNHPSNHQP 285  
 DB 238 VAILVVLVYTDFFKTTESNKERK-EDSHHTLTHT-TNRQSYARNHEP 282

RESULT 5

US-09-360-376-55  
 ; Sequence 55, Application US/09360376  
 ; Patent No. 6495739  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lasser, Michael  
 ; APPLICANT: Ruezinsky, Diane  
 ; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES  
 ; FILE REFERENCE: 17026/01/US  
 ; CURRENT APPLICATION NUMBER: US/09/360,376  
 ; CURRENT FILING DATE: 1999-07-23  
 ; PRIOR APPLICATION NUMBER: US 09/122,315  
 ; PRIOR FILING DATE: 1998-07-24  
 ; NUMBER OF SEQ ID NOS: 55  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 55  
 ; LENGTH: 233  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-360-376-55

Query Match 34.2%; Score 513; DB 4; Length 233;  
 Best Local Similarity 50.5%; Pred. No. 2.8e-47;  
 Matches 100; Conservative 32; Mismatches 64; Indels 2; Gaps 2;  
 QY 6 RLFPYALDVLCLVLLASMPMAVLKGLQIYPPFORGFCKDINSINYPYH-DSTAATVILVG 64  
 DB 33 RVLLICLDLFLPMAGLFLFIETSIKPVHRGFCYNDESIIKYPKTGTETINDAVLCVNG 92  
 QY 65 VGLPVSSIIIGETLSVVCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIAKYSI 124  
 DB 93 IVIAILAIITGEPIRYI-VLKSRSTIQNPYVAALYKQVCGFLFGCAISQSFTDIKAVSI 151

QY 125 GRLRPHFLDVCDDPWSKINGSDGIEYICRGNAERVKEGRLSPYSGHSFMSYCMLEFVA 184  
 DB 152 GRLRPHFLSVCNPDFSQINCSEGIQNYRCRGDDSKVQEARKSFSGHASFSMTMLYL 211  
 QY 185 LYLQARMKGDWARLLRPT 202  
 DB 212 LYLQARFTWRGARCSPS 229  
 RESULT 6  
 US-09-122-315C-18  
 ; Sequence 18, Application US/09122315C  
 ; Patent No. 6476294  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Michael W. Lasser  
 ; APPLICANT: Diane Ruezinsky  
 ; TITLE OF INVENTION: Plant Phosphatidic Acid Phosphatases  
 ; FILE REFERENCE: 17026/00/US  
 ; CURRENT APPLICATION NUMBER: US/09/122,315C  
 ; CURRENT FILING DATE: 1998-07-24  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: IBM PC: Windows NT 4.0; Microsoft Word for Windows 7.0a  
 ; SEQ ID NO 18  
 ; LENGTH: 323  
 ; TYPE: PRT  
 ; ORGANISM: artificial sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: entire conserved region depicted in Figure 1  
 ; NAME/KEY: unsure  
 ; LOCATION: (1)..(323)  
 ; OTHER INFORMATION: unsure at all Xaa locations  
 US-09-122-315C-18

Query Match 33.3%; Score 498.5; DB 4; Length 323;  
 Best Local Similarity 43.0%; Pred. No. 1.7e-45;  
 Matches 114; Conservative 9; Mismatches 137; Indels 5; Gaps 3;  
 QY 12 LDVLCVLLASMPMAVLKGLQIYPPFORGFCKDINSINYPY--HDSTAATVLLVGLPLV 69  
 DB 39 LDVXCXXAGLPPIYXXXXXXPFXXRGXXCNDXSIKPYXXXEXTIXXALLXXXXXXIX 98  
 QY 70 SSIIIGETLSVVCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIAKYSIGRLRP 129  
 DB 99 XXXIXGEXLXXYXXXXXXSAXXXXXXXVIAXXXKVGAFLLGXXXSQXTDIAXXIGRLRP 158  
 QY 130 HFLDVCDDPWSKINGSDGIEYIYIC-RGNAERVKEGRLSPYSGHS--FSMYCMLFVALY 186  
 DB 159 HFLXCNCNPDXSXKINGSGYIXXXXXXGNXXKXXEGRXSFXSGHSXXFXSMYXMXLXXLY 218  
 QY 187 LQARMKGDWARLLRPTLOGLVAVSIYVGLSRVSDYKHHWSVLTGLIQQALVAILVAVY 246  
 DB 219 LQARXXXXXARLXRPWXXFXXXXXXLSRXXDYHHHXXDVXXGXXXXXXXXXXXXX 278  
 QY 247 VSDFFKERTSFKEKEEDSHHTLHE 271  
 DB 279 XXXXXXXXXXKXXXXXXDXLTXE 303

RESULT 7

US-09-270-767-43247  
 ; Sequence 43247, Application US/09270767  
 ; Patent No. 6703491  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Homburger et al.  
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
 ; FILE REFERENCE: File Reference: 7326-094  
 ; CURRENT APPLICATION NUMBER: US/09/270,767  
 ; CURRENT FILING DATE: 1999-03-17  
 ; NUMBER OF SEQ ID NOS: 62517  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 43247  
 ; LENGTH: 412  
 ; TYPE: PRT

RESULT 9



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QY 135 CDPDWSKINGSDGYEYICRGAERVKRGLRGLFYSGHSSFSMYCMLFVALYLOARM--- 191
Db 156 CFPDGRDQVYDKGDV---ICHGQKVIKEGYKSPSGHTSGSPSGGLFLSLYLSGKIKAF 212
QY 192 --KGDWARLRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIOGALVA 240
Db 213 DRKGVAKL---CIVFLPLLVASLVSISRVDYVHHWQDVFAGGLLGLTVA 260

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RESULT 11
US-09-360-376-14
; Sequence 14, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lassner, Michael
; APPLICANT: Ruezinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; PRIOR FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 14
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Arabidopsis sp.
US-09-360-376-14

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Query Match 16.0%; Score 240; DB 4; Length 314;
Best Local Similarity 32.0%; Pred. No. 1.7e-17;
Matches 81; Conservative 34; Mismatches 88; Indels 50; Gaps 11;

QY 10 VALDVL-CVLLASMPMAVLKGLQIYPQRFCKD--NSINYPYHDSSTAASVLLILVGVG 66
Db 30 VLLVILECVLLI-----IHPPYR-FVGKDWMTDLSYPLKSGT----- 65
QY 67 LPVSSIIIGETLSVYCNLLHSNFI-----SNNYIATYIYKAIGTFLFGAAASQSLTDIAY 122
Db 66 VPIWSV-----PVYAMLLPLVIFITYFRRRDVYDLHHAVALGLLSVLVTLTDAIKN 119
QY 123 SIGRLRPHFLDVCDDPWSKINGSDGYEYICRGAERVKRGLRGLFYSGHSSFSMYCMLF 182
Db 120 AVGRPRPDPFWRCFPDGKALYDSLDV---ICHGDKSVIREGCHKSPSGHTSWSFSLGLF 176
QY 183 VALYLOARM-----KGDWARLRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIOGA 237
Db 177 LSLYLSGKIQAQFGKGVAKLCIVLPLLFAAL---VGISRVDDYVHHWQDVPFAGGLLG- 232
QY 238 LVAILVAVVVSDF 250
Db 233 -LAISTICYLQFF 244

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RESULT 12
US-09-360-376-16
; Sequence 16, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lassner, Michael
; APPLICANT: Ruezinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; PRIOR FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 16
; LENGTH: 322

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; TYPE: PRT
; ORGANISM: Glycine sp.
US-09-360-376-16

Query Match 15.6%; Score 234.5; DB 4; Length 322;
Best Local Similarity 29.7%; Pred. No. 7e-17;
Matches 70; Conservative 41; Mismatches 94; Indels 31; Gaps 8;

QY 13 DVLGVLLASMPMAVLKGLQIYPQRFCKD---NSINYPYHDSSTAASVLLILVGVGLPV 69
Db 25 DMLILLVLIIDAVLNL--IQPFHR--FVGEGMMDLRYPLKANTIPFWAVPIIALLPL 80
QY 70 SSIILGETLSVYCNLLHSNFISSNNYIATYIYKAIGTFLFGAAASQSLTDIAYSIGRLRP 129
Db 81 AVPL-----VY-----YFIRKDVYDLHHAIMGLLSVLITAVMTDAIKDVGSRPR 126
QY 130 HFLDVCDDPWSKINGSDGYEYICRGAERVKRGLRGLFYSGHSSFSMYCMLFVALYLOA 189
Db 127 DFFWRCFPDGKGV--FDPVTSNVLCTGDKGVIKEGHSKSPSGHTSWSFAGLVYLAWSL 184
QY 190 RM-----KGDWARLRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIOGALVA 240
Db 185 KURAFDRRGHVAKL---CLVFLPILVAAIAVSRVDDYVHHWQDVPFAGALIGMIIA 237

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RESULT 13
US-09-360-376-15
; Sequence 15, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lassner, Michael
; APPLICANT: Ruezinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; PRIOR FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 15
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Zea mays
US-09-360-376-15

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Query Match 15.4%; Score 230.5; DB 4; Length 310;
Best Local Similarity 32.1%; Pred. No. 1.8e-16;
Matches 77; Conservative 33; Mismatches 91; Indels 39; Gaps 11;

QY 13 DVLGVLLASMPMAVLKGLQIYPQRFCKD--NSINYPYHDSSTAASVLLILVGVGLPV 70
Db 24 DMIILLVLIIDAVLNL--IQPFHR--FVGKDWMTDLYRPMKGNTPFWAVPLIGIILPWA 80
QY 71 SSIILGETLSVYCNLLHSNFISSNNYIATYIYKAIGTFLFGAAASQSLTDIAYSIGRLRP 130
Db 81 IFV-----CIY-----FKKKNFYDLHHGILG-ILYSVLITAVITDAIKDVGSRPRD 126
QY 131 FLDVCDPWSKI--NCSDGYEYICRGAERVKRGLRGLFYSGHSSFSMYCMLFVALYLO 188
Db 127 FFWRCFPNGNDVYDNIITG-----VICNGVKSVIREGCHKSPSGHTSWSFAGLVLA 182
QY 189 ARM-----KGDWARL---LRPTLQFGLVAVSIYVGLSRVSDYKHHSVDLTGLIOGALVA 240
Db 183 GKLTAPDRKGHIKLCIVFLPLLTAALVAV-----SRVDDYVHHWQDVPFAGGLIGLTV 236

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RESULT 14
US-09-360-376-52
; Sequence 52, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lassner, Michael

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Qy	184	ALYL--QARMKGDWARLLRPTLOFGLVAVSIYVGLSRVSDYKHHWSVLTGLTLOGALVAI	241
Db	133	TLFLGQSQANNGKTSWRMTISFIPWLMACTALSTQDYRHHFIDFVGSCLGLIIAI	192
Qy	242	-----LVAVYVSDFFKERTSFKE--RKKE	263
Db	193	WOYFRLLPFPFGNGQANDSFNNRIMIEIKKKE	225

Search completed: November 2, 2005, 21:48:56  
Job time : 18.5043 secs

RESULT 15  
US-09-248-796A-15660  
; Sequence 15660, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 15660  
; LENGTH: 243  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-15660

Query Match 12.8%; Score 191.5; DB 4; Length 243;  
Best Local Similarity 29.1%; Pred. No. 2.1e-12;  
Matches 62; Conservative 35; Mismatches 87; Indels 29; Gaps 9;

Qy 67 LPVSSIIIGETLSVCYNLLHSNFSISNNYIATYKAITGTFGCNAASQSILTDIAKYSIGR 126  
Db 26 IPIVSIIIVAIIST-CPPKYK---LYNTWSSSI-----GLLLSVLTSPFVNIVKNWFGR 76

Qy 127 LRPHFLDVCDP--DWSKINCSGDGYIEYYIC-RGNARVKKEGRLSFYSGHSHSFSGMYCMLFV 183  
Db 77 LRPDFLDRCPANDTPK----DKLVSEVTCTDNLRDLADGFRTTSGHSHSISFGAGLFYL 132

GenCore version 5.1.6  
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# OM protein - protein search, using sw model

Run on: November 2, 2005, 21:46:06 ; Search time 84.5632 Seconds  
(without alignments)  
1408.915 Million cell updates/sec

Title: US-08-842-827-4

Perfect score: 1499

Sequence: 1 MFDKTRLPYVALDVLCLLA.....HTLHETPTGNHPSNHQP 285

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues

Total number of hits satisfying chosen parameters: 1865214

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

## Database :

Published Applications AA:\*  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
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21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1485	99.1	285	US-10-655-601-1	Sequence 1, Appli
2	1309.5	87.4	284	US-10-764-425-157	Sequence 157, App
3	1306	87.1	289	US-10-643-795A-136	Sequence 136, App
4	1306	87.1	289	US-10-948-518-136	Sequence 136, App
5	1128	75.3	221	US-10-287-226-346	Sequence 346, App
6	1128	75.3	221	US-10-287-226-348	Sequence 348, App
7	737	49.2	274	US-10-491-467-49	Sequence 49, Appl
8	694	46.3	311	US-10-812-238A-13	Sequence 13, Appl
9	688	45.9	311	US-10-655-601-2	Sequence 2, Appli
10	552.5	36.9	372	US-11-097-143-2046	Sequence 2046, Ap
11	435	29.0	340	US-11-097-143-14997	Sequence 14997, A

12	413	27.6	246	20	US-11-097-143-912	Sequence 912, App
13	413	27.6	341	20	US-11-097-143-41346	Sequence 41346, A
14	409.5	27.3	334	20	US-11-097-143-24018	Sequence 24018, A
15	393	26.2	305	20	US-11-097-143-41352	Sequence 41352, A
16	344.5	23.0	321	15	US-10-343-357-5	Sequence 5, Appli
17	333.5	22.2	305	20	US-11-097-143-41349	Sequence 41349, A
18	311.5	20.8	377	15	US-10-094-749-2701	Sequence 2701, Ap
19	301.5	20.1	326	17	US-10-204-921-58	Sequence 58, Appli
20	290	19.3	292	16	US-10-476-232-2	Sequence 2, Appli
21	287	19.1	318	15	US-10-369-493-6893	Sequence 6893, Ap
22	274.5	18.3	89	14	US-10-029-386-29445	Sequence 29445, A
23	263.5	17.6	318	18	US-10-491-467-52	Sequence 52, Appli
24	262.5	17.5	187	16	US-10-476-232-3	Sequence 3, Appli
25	257.5	17.2	427	15	US-10-108-260A-2833	Sequence 2833, Ap
26	256	17.1	220	14	US-10-106-698-5750	Sequence 5750, Ap
27	246.5	16.4	180	9	US-09-860-670-125	Sequence 125, App
28	246.5	16.4	180	14	US-10-103-313-490	Sequence 490, App
29	246.5	16.4	180	15	US-10-227-646-125	Sequence 125, App
30	246.5	16.4	183	14	US-10-103-313-340	Sequence 340, App
31	245	16.3	319	16	US-10-739-930-10075	Sequence 10075, A
32	243.5	16.2	607	16	US-10-723-860-3797	Sequence 3797, Ap
33	240	16.0	343	15	US-10-424-599-276804	Sequence 276804, A
34	239.5	16.0	247	16	US-10-437-963-152388	Sequence 152388, A
35	239.5	16.0	309	16	US-10-767-701-44853	Sequence 44853, A
36	237	15.8	311	16	US-10-425-115-203641	Sequence 203641, A
37	234.5	15.6	322	15	US-10-424-599-207810	Sequence 207810, A
38	234.5	15.6	333	15	US-10-425-114-43046	Sequence 43046, A
39	232.5	15.5	377	15	US-10-425-114-47060	Sequence 47060, A
40	232	15.5	321	16	US-10-425-115-323994	Sequence 323994, A
41	231.5	15.4	310	16	US-10-425-115-203640	Sequence 203640, A
42	231.5	15.4	318	15	US-10-425-114-70549	Sequence 70549, A
43	231.5	15.4	324	15	US-10-425-114-41280	Sequence 41280, A
44	230.5	15.4	310	16	US-10-425-115-239676	Sequence 239676, A
45	230.5	15.4	368	15	US-10-425-114-64697	Sequence 64697, A

## ALIGNMENTS

RESULT 1  
US-10-655-601-1  
; Sequence 1, Application US/10655601  
; Publication No. US20040137522A1  
; GENERAL INFORMATION:  
; APPLICANT: Feany, Mel B.  
; APPLICANT: Shulman, Joshua M.  
; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy  
; FILE REFERENCE: 7570/73251  
; CURRENT APPLICATION NUMBER: US/10/655,601  
; CURRENT FILING DATE: 2003-09-05  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: Patent version 3.1  
; SEQ ID NO 1  
; LENGTH: 285  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-655-601-1

Query Match 99.1%; Score 1485; DB 16; Length 285;  
Best Local Similarity 98.6%; Pred. No. 2.8e-147;  
Matches 281; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY	1	MFDKTRLPYVALDVLCLLASMPAVLKLQGYPPQRGPFCKDINSINYPHDSTAATVTL	60
DB	1	MFDKTRLPYVALDVLCLLASMPAVLKLQGYPPQRGPFCKDINSINYPHDSTVTL	60
QY	61	ILVGVGLPVSSIIIGETLSVYCNLLHNSFIANNIATYIKAGTFLFCAASQSITDIA	120
DB	61	ILVGVGLPVSSIIIGETLSVYCNLLHNSFIANNIATYIKAGTFLFCAASQSITDIA	120
QY	121	KYSIGRLRPHFLDVCDDPMSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCM	180
DB	121	KYSIGRLRPHFLDVCDDPMSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCM	180

RESULT 3  
US-10-643-795A-136  
; Sequence 136, Application US/10643795A  
; Publication No. US20040241703A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN FRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU  
; APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

```

; TITLE OF INVENTION: TREATMENT OF TUMOR
; FILE REFERENCE: P5026R1-US
; CURRENT APPLICATION NUMBER: US/10/643,795A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,809
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/405,645
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: US 60/413,192
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: US 60/419,008
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/426,847
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/484,959
; PRIOR FILING DATE: 2003-07-02
; NUMBER OF SEQ ID NOS: 158
; SEQ ID NO 136
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-643-795A-136

Query Match 87.1%; Score 1306; DB 16; Length 289;
Best Local Similarity 87.3%; Pred. No. 1.9e-128;
Matches 254; Conservative 6; Mismatches 23; Indels 8; Gaps 3

Qy 1 MFDKTRLPYVALDVLCVLLASMPMAVLKGOI-----YFQFGFTCKNSINYPYHDSTAA 56
Db 1 MFDKTRLPYVALDVLCVLLAGLPAIFTRSHITSRHTPFQRFVFCNDESIKYPYKEDTI- 59
Qy 57 STVLILVGVGLPVS--SIIIGETLSVVCNLLHNSFISNNYIATYKAIGTFLFGAAASQ 114
Db 60 -PYALLGIIIPSIIVIIIGETLSVVCNLLHNSFRNNYIATYKAIGTFLFGAAASQ 118
Qy 115 SLTDIAKYSIGRLRPHFLDVCDDPWSKINCSGDYIEYICRGAERVKESGLSPFSGHSS 174
Db 119 SLTDIAKYSIGRLRPHFLDVCDDPWSKINCSGDYIEYICRGAERVKESGLSPFSGHSS 178
Qy 175 FSWCYMLFVALYIQARKMGDWARLLRPTQGLVAVSIIYVGLSRVSDYKHHWSDVLTGLI 234
Db 179 FSWCYMLFVALYIQARKMGDWARLLRPTQGLVAVSIIYVGLSRVSDYKHHWSDVLTGLI 238
Qy 235 QGALVAILVAVYSDFFPKERTSPKERKEEDSHTTLHETPTTGNHYPSNHQP 285
Db 239 QGALVAILVAVYSDFFPKERTSPKERKEEDSHTTLHETPTTGNHYPSNHQP 289

RESULT 4
US-10-948-518-136
; Sequence 136, Application US/10948518
; Publication No. US2005006492A1
; GENERAL INFORMATION:
; APPLICANT: FREDERIC J. DESAUVAGE
; APPLICANT: GRETCHEEN FRANTZ
; APPLICANT: KENNETH J. HILLAN
; APPLICANT: PAUL POLAKIS
; APPLICANT: ANDREW POLSON
; APPLICANT: VICTORIA SMITH
; APPLICANT: SUSAN D. SPENCER
; APPLICANT: THOMAS D. WU
; APPLICANT: ZEMIN ZHANG
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; TITLE OF INVENTION: TREATMENT OF TUMOR
; FILE REFERENCE: P5026R1-US
; CURRENT APPLICATION NUMBER: US/10/948,518
; CURRENT FILING DATE: 2004-09-22
; PRIOR APPLICATION NUMBER: US/10/643,795
; PRIOR FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,809
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/405,645
; PRIOR FILING DATE: 2002-08-21

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; PRIOR APPLICATION NUMBER: US 60/413,192
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: US 60/419,008
; PRIOR FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US 60/426,847
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/484,959
; PRIOR FILING DATE: 2003-07-02
; NUMBER OF SEQ ID NOS: 158
; SEQ ID NO 136
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-948-518-136

Query Match      87.1%; Score 1306; DB 17; Length 289;
Best Local Similarity 87.3%; Pred. No. 1.9e-128;
Matches 254; Conservative 6; Mismatches 23; Indels 8; Gaps 3;

QY 1 MFDKTLPPYVALDVLCVLLASMPVAVLKLQGI-----YPPFORGFCKDMSINYPYHDSTAA 56
Db 1 MFDKTLPPYVALDVLCVLLAGLDFAFITSRHTTPFORGVPCNDESIKYPKEDTI- 59

QY 57 STVLLVGVGLPVS--SIILGETLSVVCNLLHNSFISNNYIATIIYKAIGTFLFGAAASQ 114
Db 60 -PVALLGGIIPFSIIIVILGETLSVVCNLLHNSFIRNNYIATIIYKAIGTFLFGAAASQ 118

QY 115 SLTDIAKISIGRLRPHFLDVCDDPDWSKINGSDGYIEYICRGAERVKGRSLFSYSGHSS 174
Db 119 SLTDIAKISIGRLRPHFLDVCDDPDWSKINGSDGYIEYICRGAERVKGRSLFSYSGHSS 178

QY 175 FSYCMCLFVALYIQAARKMGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLI 234
Db 179 FSYCMCLFVALYIQAARKMGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLI 238

QY 235 QGALVAILVAVYVSDFKERTSPKKEEDSHTTLTHTPTTGNHYPNSHQ 285
Db 239 QGALVAILVAVYVSDFKERTSPKKEEDSHTTLTHTPTTGNHYPNSHQ 289

RESULT 5
US-10-287-226-346
; Sequence 346, Application US/10287226
; Publication No. US20040086875A1
; GENERAL INFORMATION:
; APPLICANT: Agee, Michele L.,
; APPLICANT: Alsobrook, John P.,
; APPLICANT: Berghs, Constance,
; APPLICANT: Boldog, Ference,
; APPLICANT: Burgess, Catherine E.,
; APPLICANT: Chant, John S.,
; APPLICANT: Chaudhuri, Amitabha,
; APPLICANT: Dipippo, Vincent A.,
; APPLICANT: Edinger, Shlomit R.,
; APPLICANT: Eisen, Andrew,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gangolli, Esha A.,
; APPLICANT: Gorman, Linda,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Khrantsov, Nikolai,
; APPLICANT: Li, Li,
; APPLICANT: Malyankar, Uriel M.,
; APPLICANT: MacDougall, John R.,
; APPLICANT: Mezes, Peter S.,
; APPLICANT: Miller, Charles E.,
; APPLICANT: Millet, Isabelle,
; APPLICANT: Ooi, Chean Eng,
; APPLICANT: Ort, Tatiana,
; APPLICANT: Padigaru, Muralidhara,
; APPLICANT: Patturajan, Meera,
; APPLICANT: Rastelli, Luca,
```

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; APPLICANT: Rieger, Daniel K.,
; APPLICANT: Rothenberg, Mark E.,
; APPLICANT: Shenoy, Suresh G.,
; APPLICANT: Spaderna, Steven K.,
; APPLICANT: Spytek, Kimberley A.,
; APPLICANT: Taupier, Jr., Raymond J.,
; APPLICANT: Vernet, Corine A.M.,
; APPLICANT: Zerhusen, Bryan D.,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-480C
; CURRENT APPLICATION NUMBER: US/10/287,226
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/334,421
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,392
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/360,148
; PRIOR FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/364,000
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/404,821
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 60/334,526
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,409
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/364,227
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/334,027
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: 60/331,641
; PRIOR FILING DATE: 2001-11-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 346
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-226-346

Query Match      75.3%; Score 1128; DB 15; Length 221;
Best Local Similarity 99.5%; Pred. No. 6.9e-110;
Matches 213; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 72 IILGETLSVVCNLLHNSFISNNYIATIIYKAIGTFLFGAAASQSLTDIAKISIGRLRPHF 131
Db 8 IILGETLSVVCNLLHNSFIRNNYIATIIYKAIGTFLFGAAASQSLTDIAKISIGRLRPHF 67

QY 132 LDVCDPDWSKINGSDGYIEYICRGAERVKGRSLFSYSGHSSFSCMYCMCLFVALYIQAARM 191
Db 68 LDVCDPDWSKINGSDGYIEYICRGAERVKGRSLFSYSGHSSFSCMYCMCLFVALYIQAARM 127

QY 192 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQAALVAILVAVYVSDF 251
Db 128 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQAALVAILVAVYVSDF 187

QY 252 KERTSPKKEEDSHTTLTHTPTTGNHYPNSHQ 285
Db 188 KERTSPKKEEDSHTTLTHTPTTGNHYPNSHQ 221

RESULT 6
US-10-287-226-348
; Sequence 348, Application US/10287226
; Publication No. US20040086875A1
; GENERAL INFORMATION:
; APPLICANT: Agee, Michele L.,
; APPLICANT: Alsobrook, John P.,
; APPLICANT: Berghs, Constance,
; APPLICANT: Boldog, Ference,
; APPLICANT: Burgess, Catherine E.,
```

APPLICANT: Chant, John S.,  
APPLICANT: Chaudhuri, Amitabha,  
APPLICANT: DiPippo, Vincent A.,  
APPLICANT: Edinger, Shlomit R.,  
APPLICANT: Eisen, Andrew,  
APPLICANT: Ellerman, Karen,  
APPLICANT: Ganggoli, Beha A.,  
APPLICANT: Gorman, Linda,  
APPLICANT: Gerlach, Valerie,  
APPLICANT: Ji, Weizhen,  
APPLICANT: Kekuda, Ramesh,  
APPLICANT: Khrantsov, Nikolai,  
APPLICANT: Li, Li,  
APPLICANT: Malyankar, Uriel M.,  
APPLICANT: MacDougall, John R.,  
APPLICANT: Mezes, Peter S.,  
APPLICANT: Miller, Charles E.,  
APPLICANT: Millet, Isabelle,  
APPLICANT: Ooi, Chean Eng,  
APPLICANT: Ort, Tatiana,  
APPLICANT: Padigaru, Muralidhara,  
APPLICANT: Patturajan, Meera,  
APPLICANT: Rastelli, Luca,  
APPLICANT: Rieger, Daniel K.,  
APPLICANT: Rothenberg, Mark E.,  
APPLICANT: Shenoy, Suresh G.,  
APPLICANT: Spaderna, Steven K.,  
APPLICANT: Spytek, Kimberley A.,  
APPLICANT: Taupier, Jr., Raymond J.,  
APPLICANT: Vernet, Corine A.M.,  
APPLICANT: Zernhusen, Bryan D.,  
APPLICANT: Zhong, Mei  
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-480C  
; CURRENT APPLICATION NUMBER: US/10/287,226  
; CURRENT FILING DATE: 2002-11-04  
; PRIOR APPLICATION NUMBER: 60/334,421  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,392  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/360,148  
; PRIOR FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: 60/364,000  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/404,821  
; PRIOR FILING DATE: 2002-08-20  
; PRIOR APPLICATION NUMBER: 60/334,526  
; PRIOR FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/354,409  
; PRIOR FILING DATE: 2002-02-04  
; PRIOR APPLICATION NUMBER: 60/364,227  
; PRIOR FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: 60/334,027  
; PRIOR FILING DATE: 2001-11-28  
; PRIOR APPLICATION NUMBER: 60/331,641  
; PRIOR FILING DATE: 2001-11-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 673  
; SOFTWARE: CuraSeqList version 0.1  
; SEQ ID NO 348  
; LENGTH: 221  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-287-226-348  
Query Match 75.3%; Score 1128; DB 15; Length 221;  
Best Local Similarity 99.8%; Pred. No. 6.9e-110;  
Matches 213; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 72 IILGETLSVYCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIAKYSGRLRPHF 131  
Db 8 IILGETLSVYCNLLHNSFIRNNYIATYKAIGTFLFGAAASQSLTDIAKYSGRLRPHF 67

QY 132 LDVCDPDWSKINCSDGYIEYICRGNAERVKESGRISFYSGHSFSMYCMLFVALYLOARM 191  
Db 68 LDVCDPDWSKINCSDGYIEYICRGNAERVKESGRISFYSGHSFSMYCMLFVALYLOARM 127  
QY 192 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHMSDVLTLGLQGLVALVAILVAVVYSDPF 251  
Db 128 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHMSDVLTLGLQGLVALVAILVAVVYSDPF 187  
QY 252 KERTSFKERKEEDSHTTLHETPTTGNHYSNHPQ 285  
Db 188 KERTSFKERKEEDSHTTLHETPTTGNHYSNHPQ 221  
RESULT 7  
US-10-491-467-49  
; Sequence 49, Application US/10491467  
; Publication No. US20050186568A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE CORPORATION; BANDMAN, Olga;  
; APPLICANT: BAUGHN, Mariah R.; BECHA, Shanya D.;  
; APPLICANT: BOROWSKY, Mark L.; DUGGAN, Brendan M.;  
; APPLICANT: EMERLING, Brooke M.; FORSYTHE, Ian J.;  
; APPLICANT: GANDHI, Ameena R.; GORVAD, Ann E.;  
; APPLICANT: GRIFFIN, Jennifer A.; GURURAJAN, Rajagopal;  
; APPLICANT: HAFALIA, April J.A.; KHAN, Farrah A.;  
; APPLICANT: LAL, Preeti G.; LEE, Ernestine A.;  
; APPLICANT: LEE, Soo Yeun; LINDQUIST, Erika A.;  
; APPLICANT: LU, Dying Aina M.; LU, Yan;  
; APPLICANT: MARQUIS, Joseph P.; NGUYEN, Dannie B.;  
; APPLICANT: ARVIZU, Chandra S.; RAMKUMAR, Jayalaxmi;  
; APPLICANT: RECIPON, Shirley A.; RICHARDSON, Thomas W.;  
; APPLICANT: SWARNAKAR, Anita; TANG, Y. Tom;  
; APPLICANT: THORNTON, Michael B.; TRAN, Uyen K.;  
; APPLICANT: CHAWLA, Narinder K.; WARREN, Bridget A.;  
; APPLICANT: YANG, Junming; YAO, Monique G.;  
; APPLICANT: YUE, Henry; ZEBARJADIAN, Yeganeh  
; TITLE OF INVENTION: KINASES AND PHOSPHATASES  
; FILE REFERENCE: PF-1244 USN  
; CURRENT APPLICATION NUMBER: US/10/491,467  
; CURRENT FILING DATE: 2004-03-31  
; PRIOR APPLICATION NUMBER: PCT/US02/33723  
; PRIOR FILING DATE: 2002-10-17  
; PRIOR APPLICATION NUMBER: US 60/345,474  
; PRIOR FILING DATE: 2001-10-19  
; PRIOR APPLICATION NUMBER: US 60/343,910  
; PRIOR FILING DATE: 2001-11-02  
; PRIOR APPLICATION NUMBER: US 60/333,098  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 60/332,424  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: US 60/334,288  
; PRIOR FILING DATE: 2001-11-30  
; NUMBER OF SEQ ID NOS: 104  
; SOFTWARE: PERL Program  
; SEQ ID NO 49  
; LENGTH: 274  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 7503176CD1  
US-10-491-467-49  
Query Match 49.2%; Score 737; DB 18; Length 274;  
Best Local Similarity 56.3%; Pred. No. 1.2e-68;  
Matches 152; Conservative 34; Mismatches 74; Indels 10; Gaps 6;  
QY 21 SPMVAVLKLGQIYFQGFCCDKNSINYPYHDSSTAASTVLLVGVGLPVSSITLGETLSV 80  
Db 5 SLFPAILTLVNA-PYKRGFYCGDDSIYRYPDPDTHGLMAGVTITATVILVSAGEAYLV 63  
QY 81 YCNLLHNSFISNNYIATYKAIGTFLFGAAASQSLTDIAKYSGRLRPHFLDVCDPDWS 140

Db 64 YDRLYSRSPF--NNYVAAYVKVLGTFLFGAAVSQSLTDLAKYIMIGRLRPNFLAVCDPDWS 122  
QY 141 KINGSQYIEV-YICRGNARVERGRLSYSGHSSFSMYCMLFVALYLQARMKGDWARLL 199  
Db 123 RVNCS-VVQLEKVCRCGNPADVTREARLSFYSGHSSFGNCHVFLALYVQARLCKWKWARLL 181  
QY 200 RPTLQGLVAVSYVGLSRVSDYKHHWSDVLTGLIQQALVAILVAVTVSDFKERTSFKE 259  
Db 182 RPTVQFLVAFALYGVTRYSDYKHHWSDVLTGLIQQALVAILVAVTVSDFKERTSFKE 241  
QY 260 RKEE--DSHTTLHETPTTG-----NHPSNH 283  
Db 242 LKSEELERKPSLSTLTGLGEADHNYGYPH 271

## RESULT 8

US-10-812-238A-13  
; Sequence 13, Application US/10812238A  
; Publication No. US20050002904A1  
; GENERAL INFORMATION:  
; APPLICANT: Warty, Kishore, K.  
; APPLICANT: Humtsoe, Joseph O.  
; TITLE OF INVENTION: Uses of Vascular Endothelial Growth Factor  
; TITLE OF INVENTION: and Type I Collagen Inducible Protein (VCIP)  
; FILE REFERENCE: D6563  
; CURRENT APPLICATION NUMBER: US/10/812,238A  
; CURRENT FILING DATE: 2004-03-29  
; PRIOR APPLICATION NUMBER: US 60/458,164  
; PRIOR FILING DATE: 2003-03-27  
; NUMBER OF SEQ ID NOS: 36  
; SEQ ID NO 13  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; NAME/KEY: CHAIN  
; OTHER INFORMATION: human VCIP  
US-10-812-238A-13

Query Match 46.3%; Score 694; DB 17; Length 311;  
Best Local Similarity 53.6%; Pred. No. 4.8e-64;  
Matches 135; Conservative 39; Mismatches 76; Indels 2; Gaps 2;

QY 6 RLPYVALDVLCVLLASMPMAVLKGLQIYFQRCFFCKDINSINYPIH-DSTAASVTLVLVG 64  
Db 33 RVLLICLDLFCFLMAGLFLIITSTIKPYHRGFYCNDESIKYPLKTGETINDAVLCVAVG 92  
QY 65 VGLPVSIIILGETLSVYCNLLHNSFISNNYIATYIYKAIGTFLFGAAASQSLTDIAKYSI 124  
Db 93 IVTALIAITGEFYRIY-YLKKSRSSTIQNPYVAALYKQVCGFLFGCAISQSFDTIAKYSI 151  
QY 125 GRLRPHFLDVCDPWSKINCSGYIEYICRGNARVERGRLSYSGHSSFSMYCMLFVA 184  
Db 152 GRLRPHFLSVCPNDFSQINCSGYIQNYRCRGGDSKVQEARSKVQFSGHSSFSMYTMYLV 211  
QY 185 LYLOARMKGDWARLLRPTLQGLVAVSYVGLSRVSDYKHHWSDVLTGLIQQALVAILVA 244  
Db 212 LYLOARFTWGRALLRPLLOFTLIMAFYTGLSRVSDDHKKHPDVLGAFAGQALVACCIV 271  
QY 245 VYVSDFFKERTS 256  
Db 272 FFVSDLPFKTKT 283

## RESULT 9

US-10-655-601-2  
; Sequence 2, Application US/10655601  
; Publication No. US20040137522A1  
; GENERAL INFORMATION:  
; APPLICANT: Feany, Mel B.  
; APPLICANT: Shulman, Joshua M.  
; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy  
; FILE REFERENCE: 7570/73251

; CURRENT APPLICATION NUMBER: US/10/655,601  
; CURRENT FILING DATE: 2003-09-05  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-655-601-2

Query Match 45.9%; Score 688; DB 16; Length 311;  
Best Local Similarity 53.6%; Pred. No. 2e-63;  
Matches 134; Conservative 38; Mismatches 76; Indels 2; Gaps 2;

QY 6 RLPYVALDVLCVLLASMPMAVLKGLQIYFQRCFFCKDINSINYPIH-DSTAASVTLVLVG 64  
Db 33 RVLLICLDLFCFLMAGLFLIITSTIKPYHRGFYCNDESIKYPLKTGETINDAVLCVAVG 92  
QY 65 VGLPVSIIILGETLSVYCNLLHNSFISNNYIATYIYKAIGTFLFGAAASQSLTDIAKYSI 124  
Db 93 IVTALIAITGEFYRIY-YLKKSRSSTIQNPYVAALYKQVCGFLFGCAISQSFDTIAKYSI 151  
QY 125 GRLRPHFLDVCDPWSKINCSGYIEYICRGNARVERGRLSYSGHSSFSMYCMLFVA 184  
Db 152 GRLRPHFLSVCPNDFSQINCSGYIQNYRCRGGDSKVQEARSKVQFSGHSSFSMYTMYLV 211  
QY 185 LYLOARMKGDWARLLRPTLQGLVAVSYVGLSRVSDYKHHWSDVLTGLIQQALVAILVA 244  
Db 212 LYLOARFTWGRALLRPLLOFTLIMAFYTGLSRVSDDHKKHPDVLGAFAGQALVACCIV 271  
QY 245 VYVSDFFKERTS 256  
Db 272 FFVSDLPFKTK 281

## RESULT 10

US-11-097-143-2046  
; Sequence 2046, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2046  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: DROSOPHILA

Query Match 36.9%; Score 552.5; DB 20; Length 372;

Best Local Similarity	44.9%;	Pred. No.	4.6e-49;			
Matches	123;	Conservative	43; Mismatches	84; Indels	23; Gaps	7;
Qy	3	DKTRLPVVLDLVCVLASPMAY-LKLGQIYPFQRFECCKDINSINYPYHDSAASTAVLI	61			
Db	76	NKRILCRVGDLVLLLCAGPILLFFLLGE--PYRGFFCCDESLKKHPFHDSIVRNWMLY	133			
Qy	62	LVGGLPVSSIILGETLSVYCNLHLHSN-----FISNNY-----IATYYKAIGTFVFGA	110			
Db	134	FIGAVIDGVGFIVEVIISQNKAQDNGNATSRRYVFMNYELPDWMIECYKKGIYAFGA	193			
Qy	111	AASQLTDIAKYSGIRLRPHFLDVCDPDWSK-INCSDG-----VIEYVICRG---NAERV	161			
Db	194	VLSQLTTDIAKYSGIRLRPHFIACVPQMADGSTCDDAINAKGKIQEFTCKGVGSARM	253			
Qy	162	KEGRLSFSYGSHSSPSMTCMLFVALYLQARKMGDWARLLRPTLQFGLVAVSIIYVGLRVSD	221			
Db	254	KENRLSPSGSHSSPTFPANVYLAUYLQARMTWRGSKLLRHLLQFLFMVAWYTALSRVSD	313			
Qy	222	YKHHSVDLTGLIQGALVAILVAVVYSDFPKE	253			
Db	314	YKHHSVDLAGSLIGSISALVWVNVSDLPFOK	345			

RESULT 11  
US-11-097-143-14997  
; Sequence 14997, Application US/11097143  
; Publication No. US20050208558A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.

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; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14997
; LENGTH: 340
; TYPE: prt
; ORGANISM: DROSOPHILA
US-11-097-143-14997

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Qy 117 TDIAYSIGRLRPHFLDVCDP----DWSKINCS----GYIEYYICRG----NAERVKEGR 165
Db 149 TEVGKTYIGRLRPHFLAVCQPIADGSM--CSDPWNLRHYMENYDCAGEGFTVEDVRQAR 206
Qy 166 LSPFSYGHSSPSMYCMLFVALYLOARMKGDWARLLRPTLOFGLVAVSIYVGLSRVSDYKHH 225
Db 207 LSPFSYGHSSLAFYAMIVVALYLOBKRIWRSKLSRHFVQFAVVMVAVTALSRVMDVHH 266
Qy 226 WSDVLTGLIOCALVAILVAVVVSDFFKERTS----FKERKEEDSHTTLHE--TPTTGNHY 280
Db 267 WSDVLSGSLGVACALITAHVIARMFDDGASNILSGGLRRENTAANTLQEEVCTPTPPPS 326
Qy 281 SNH 283
Db 327 VNN 329

RESULT 12
US-11-097-143-912
; Sequence 912, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 912
; LENGTH: 246
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-912

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	Query Match Best Local Similarity Matches	27.6%; 40.9%; 94;	Score 413; Pred. No. 1.2e-34; Conservative 36;	DB 20; Mismatches 76; Indels 22;	Length 246; Gaps 5	
Qy	36	QRGFCKDINSINYDHDSTA	STAA	TVLLVGVGLPYSSIILGET	LSVYCNLHLS--NSFIS 92	
Db	12	KRGFFCDSSLRHRYRDS	TWPSW	ILYLMCGALPLTVMLVVEFF	RQDQKRLHSPFPKSTNC 71	
Qy	93	NNY-----TATTYKA	TGTELF	FGAAASQSLTDIAKYSIG	RLRPHFLDVCDDWSK- 141	
Db	72	SGYHLCHLEPTLWECY	VRHMG	IFIFGLGVQQLSTNIAKYS	IGRLRPHFYTLCPQVMKDG 131	
Qy	142	INCSD-----GYIEY	YICRG---	NAERVKEGRLSFYSGHS	SFSWYCMFLVALLYLOARKMG 193	
Db	132	TTCSDPINAARYII	EEFTCA	AVDITTSKQDKMRLSFP	PSGHASFACYSMLYLVLYLHRRMOW 191	
Qy	194	DWABLLRPTLQFG	LVAVSIYVGL	SRVSDYKGHWS	DLVTGLTQGA	LVAILV 243
Db	192	KOLRMLCHLQFL	LLIMEAWY	TALTRVSDYK	GHWSDLVLAGSG	IGLTVAVV 241





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; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41352
; LENGTH: 305
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-41352

Query Match      26.2%; Score 393; DB 20; Length 305;
Best Local Similarity 36.5%; Pred. No. 2.1e-32;
Matches 95; Conservative 51; Mismatches 88; Indels 26; Gaps 8;

QY 2 FOKTRLPYVALDVLCVLLASMPMAVLKGIY--PFGRGFFCKDINSINYPIYHDSSTAATV 59
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | :
Db 3 FNLSLRPPIRLLVDVLGLLIVLVENFRRLWGPPTRGFFCDDDSLMPYHYENTVSPIL 62

QY 60 LILVGVGLPVSSIIGETLSVYCNLLHSNSFISNNYIATYIYKAIGTFLFGAAASQSLTDI 119
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 63 LHWLGLYPLISLVVLESF-----LSHRKDMAPWPTLWPVYNTVRWFLYGYVSNLLKGI 117

QY 120 AKYSIGRLRPHFLDVCDDPW-SKINGSD---CYIEY---YICRGN-----AERVKEGRL 166
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 118 GKQALGRLRPHFPVAVCSPPHFDGSSCLDSHRGALKYHTDYECRPNLSQATEMIRDVNV 177

QY 167 SFYSGHSFSPMYCMLFVALYLOAR---MKGDWARLLRPTLQFGLVAVSYVGLSRVSDYK 223
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 178 SFPSGHSAMAFYGLVFLVALHLRRRWRPLRGS---LLSPVLQACVALANFVAISRVIDYK 234

QY 224 HHWSVDLTGLIQALVAIVL 243
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 235 HHWSOVAAGSLIGAGSALAV 254
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Search completed: November 2, 2005, 22:16:37  
Job time : 85.5632 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 2, 2005, 21:27:15 ; Search time 17.4429 Seconds  
(without alignments)  
1215.413 Million cell updates/sec

Title: US-08-842-827-2  
Perfect score: 1500  
Sequence: 1 MFDKRLPYVALDVLCLLA.....HTTLHTPTTGNHYPNSHQP 284

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/aaa/5A-COMB.pep:\*  
2: /cgn2\_6/prodata/1/aaa/5B-COMB.pep:\*  
3: /cgn2\_6/prodata/1/aaa/6A-COMB.pep:\*  
4: /cgn2\_6/prodata/1/aaa/6B-COMB.pep:\*  
5: /cgn2\_6/prodata/1/aaa/6C-COMB.pep:\*  
6: /cgn2\_6/prodata/1/aaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1320.5	88.0	285	3	US-08-992-035A-1
2	1271.5	84.8	283	3	US-08-992-035A-3
3	1271.5	84.8	283	4	US-09-360-376-53
4	1248	83.2	282	4	US-09-360-376-54
5	535.5	35.7	233	4	US-09-360-376-55
6	529	35.3	233	4	US-09-122-315C-18
7	404.5	27.0	412	4	US-09-270-767-43247
8	273	18.2	348	4	US-09-360-376-13
9	264.5	17.6	290	4	US-09-360-376-12
10	252.5	16.8	343	4	US-09-360-376-17
11	251	16.7	314	4	US-09-360-376-14
12	249	16.6	322	4	US-09-360-376-16
13	241.5	16.1	310	4	US-09-360-376-15
14	200.5	13.4	243	4	US-09-248-796A-15660
15	193.5	12.9	289	4	US-09-360-376-52
16	183	12.2	274	4	US-09-538-092-217
17	171.5	11.4	296	4	US-09-248-796A-15661
18	115.5	7.7	126	4	US-09-621-976-4116
19	102.5	6.8	305	4	US-09-710-279-2536
20	95	6.3	556	4	US-09-815-923-6
21	91	6.1	466	4	US-09-543-681A-8174
22	90	6.0	174	4	US-09-107-532A-4715
23	89.5	6.0	244	4	US-09-252-991A-21937
24	89.5	6.0	439	4	US-09-134-000C-5410
25	89	5.9	403	4	US-09-489-039A-9921
26	88.5	5.9	370	4	US-09-107-532A-4991
27	88	5.9	233	3	US-09-134-001C-4013

28	87.5	5.8	593	5	PCT-US93-07923-11	Sequence 11, Appl
29	87.5	5.8	755	5	PCT-US93-07923-3	Sequence 2, Appl
30	87.5	5.8	759	5	PCT-US93-07923-2	Sequence 3, Appl
31	87.5	5.8	766	1	US-08-230-491A-3	Sequence 3, Appl
32	87.5	5.8	766	1	US-08-619-280A-3	Sequence 3, Appl
33	87.5	5.8	766	2	US-08-940-391-3	Sequence 3, Appl
34	87.5	5.8	766	3	US-09-794-236-1	Sequence 1, Appl
35	87.5	5.8	775	4	US-09-949-016-10450	Sequence 10450, A
36	87	5.8	3011	4	US-10-104-968-1	Sequence 1, Appl
37	85.5	5.7	662	4	US-09-252-991A-22861	Sequence 22861, A
38	85	5.7	780	4	US-09-785-381-11	Sequence 11, Appl
39	85	5.7	1873	1	US-08-435-675B-4	Sequence 4, Appl
40	85	5.7	1873	1	US-08-336-257A-7	Sequence 7, Appl
41	84	5.6	304	3	US-09-134-001C-4518	Sequence 4518, Ap
42	83.5	5.6	249	4	US-09-248-796A-14768	Sequence 14768, A
43	83.5	5.6	501	4	US-09-248-796A-15842	Sequence 15842, A
44	83	5.5	793	3	US-08-374-077C-4	Sequence 4, Appl
45	83	5.5	793	3	US-08-895-590-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1  
US-08-992-035A-1  
; Sequence 1, Application US/08992035A  
; Patent No. 6242179  
; GENERAL INFORMATION:  
; APPLICANT: Shah, Purvi  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; TITLE OF INVENTION: HUMAN PHOSPHATASES  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/992,035A  
; FILING DATE: December 17, 1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0433 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 285 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: BLADNOT06  
; CLONE: 1719418  
US-08-992-035A-1

Query Match 88.0%; Score 1320.5; DB 3; Length 285;  
Best Local Similarity 88.9%; Pred. No. 1.3e-139;  
Matches 255; Conservative 8; Mismatches 19; Indels 5; Gaps 3;

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QY 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 57
D 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 60
QY 58 LGGIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTD 117
D 61 ILVGVGLPIS--SIIIGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTD 118
QY 118 IAKYISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMY 177
D 119 IAKYISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMY 178
QY 178 CMLFVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAL 237
D 179 CMLFVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAL 238
QY 238 VALVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 284
D 239 VALVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 285
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RESULT 2
US-08-992-035A-3
; Sequence 3, Application US/08992035A
; Patent No. 6242179
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; TITLE OF INVENTION: HUMAN PHOSPHATASES
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/992,035A
; FILING DATE: December 17, 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0433 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 283 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 1487873
US-08-992-035A-3
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Query Match 84.8%; Score 1271.5; DB 3; Length 283;
Best Local Similarity 83.1%; Pred. No. 4e-134;
Matches 236; Conservative 25; Mismatches 22; Indels 1; Gaps 1;
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QY 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 60
D 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 60
QY 61 GIIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTDIAK 120
D 61 GIIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTDIAK 120
QY 121 YSISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCML 180
D 121 YSISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCML 180
QY 181 FVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVAI 240
D 181 FVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVAI 240
QY 241 LVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 284
D 241 LVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 283
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RESULT 3
US-09-360-376-53
; Sequence 53, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lasener, Michael
; APPLICANT: Ruzinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; PRIOR FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 53
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-360-376-53
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Query Match 84.8%; Score 1271.5; DB 4; Length 283;
Best Local Similarity 83.1%; Pred. No. 4e-134;
Matches 236; Conservative 25; Mismatches 22; Indels 1; Gaps 1;
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QY 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 60
D 1 MFDKTRLPYVALDVLCVLLAGLPFAILLTSRHTPPFORGVFCNDESIKYPYKEDTIPYALIG 60
QY 61 GIIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTDIAK 120
D 61 GIIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATIKYKAIGTFLFGAAASQSLTDIAK 120
QY 121 YSISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCML 180
D 121 YSISGRLRPHFLDVCDDPWSKINCSDGYIEYICRGNAERVKEGRLSFYSGHSSFSMYCML 180
QY 181 FVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVAI 240
D 181 FVALYIQAARMKGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGALVAI 240
QY 241 LVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 284
D 241 LVAVVSDFFKERTSFKERKEEDSHHTLHETPTTGNHYPNSHQ 283
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RESULT 4
US-09-360-376-54
; Sequence 54, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lasener, Michael
```



•



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; Sequence 15660, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 15660
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-15660

Query Match      13.4%; Score 200.5; DB 4; Length 243;
Best Local Similarity 29.2%; Pred. No. 4.5e-14;
Matches 63; Conservative 35; Mismatches 87; Indels 31; Gaps 9;

QY 63 IIPFSIIIVILGETLSVYCNLLHSNFIIRNNYIATYKAGTFLFGAAASQSLTDIAKYS 122
Db 25 VIPLSVIIIV---ALISTCPPKYK---LYNTWVSSI-----GLLSVLITSFVTNIVKRW 73

QY 123 IGRLRPHFLDVCDP--DWSKINCSGDIYIYIC-RGNAERVKEGRLSFYSGHSSFSMYCM 179
Db 74 FGRLRPDLDRCPANDTPK-----DKLVSEIVCTTNDLRDLADGFRTPPSGHSSISFAGL 129

QY 180 LFVALYL--QARKMGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQGAL 237
Db 130 FYLTFLLGQSQANNGKTSWRTMISFIPWLMACYIALSRDQYRHHFIDVFVSGCLGLI 189

QY 238 VAI-----LVAVVSDPFKERTSFKE--RKEE 262
Db 190 IAIWQYFRLPFGNGQANDSFNNRIMIEIKRKEE 225

RESULT 15
US-09-360-376-52
; Sequence 52, Application US/09360376
; Patent No. 6495739
; GENERAL INFORMATION:
; APPLICANT: Lasser, Michael
; APPLICANT: Ruezinsky, Diane
; TITLE OF INVENTION: PLANT PHOSPHATIDIC ACID PHOSPHATASES
; FILE REFERENCE: 17026/01/US
; CURRENT APPLICATION NUMBER: US/09/360,376
; CURRENT FILING DATE: 1999-07-23
; PRIOR APPLICATION NUMBER: US 09/122,315
; PRIOR FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 52
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-360-376-52

Query Match      12.9%; Score 193.5; DB 4; Length 289;
Best Local Similarity 27.0%; Pred. No. 3.5e-13;
Matches 80; Conservative 44; Mismatches 107; Indels 65; Gaps 14;

QY 4 KTRLPVLDVLCVILAGLPAILTSRHTPFGVFCNDESIKYPV--KEDTIPYALLG 60
Db 16 KWRLEDVFLIIMILL-NYP-----VYQQPFERQFQFINDITISHPVATTVRRNNMLFVY 70

QY 61 GIIPFSIIIVILGETLSVYCNLLHSNFIIRNNYIATYKAGTFLFGAAASQSLTDIAK 120
Db 71 SFVWP-SLTILIIGSLA-----DRRHLIFILYLSLGLSLAWFSTSFFTNFTK 118
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QY 121 YSIGRLRPHFLDVCDPDMWSKINCSG-----YIEYIYIC-RGNAERVKEGRLSFYSGHSS 173
Db 119 NWIGRLRPDLDRCP-----VEGLPLDLTFTAKDVCTTKNHERLLDGFRTTPSGHSS 171
QY 174 ES-----MYCMLFVALYLQARKMGDWARLLR--PTLQFGLVAVSIYVGLSRVSDYKHHW 225
Db 172 ESFAGLGYLYFWLCCQLLTESPLMPLWRKMVAFLPLLGAALIA-----LSRTQDYRHHF 225
QY 226 SDVLTGLIQGALVAILVAVVSDPFKER-----TSFKERKEDSHTTTLHETPT 273
Db 226 VDVILGSLMGYIMA-----HFFYRIRIFPIDDPDPFKPLM-DDSDVTLLEAVT 272
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Search completed: November 2, 2005, 21:48:55  
Job time : 19.4429 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: November 2, 2005, 21:46:06 ; Search time 84.2664 Seconds  
(without alignments)  
1408.915 Million cell updates/sec

Title: US-08-842-827-2

Perfect score: 1500

Sequence: 1 MFDKRLPYVALDVLCLLA.....HTTLHETPTGNHYPNSHQ 284

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1865214 seqs, 418043040 residues

Total number of hits satisfying chosen parameters: 1865214

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pcp.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pcp.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pcp.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pcp.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pcp.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pcp.\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pcp.\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pcp.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pcp.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pcp.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pcp.\*  
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15: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pcp.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pcp.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pcp.\*  
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20: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pcp.\*  
21: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pcp.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pcp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1500	100.0	284	18	US-10-764-425-157
2	1485.5	99.0	289	16	US-10-643-795A-136
3	1485.5	99.0	289	17	US-10-948-518-136
4	1320.5	88.0	285	16	US-10-655-601-1
5	1134	75.6	221	15	US-10-287-226-346
6	1134	75.6	221	15	US-10-287-226-348
7	794.5	53.0	274	18	US-10-491-467-49
8	716.5	47.8	311	17	US-10-812-238A-13
9	710.5	47.4	311	16	US-10-655-601-2
10	535	35.7	372	20	US-11-097-143-2046
11	440.5	29.4	340	20	US-11-097-143-14997

12	410	27.3	334	20	US-11-097-143-24018	Sequence 24018, A
13	395	26.3	246	20	US-11-097-143-912	Sequence 912, App
14	386.5	25.8	341	20	US-11-097-143-41346	Sequence 41346, A
15	364.5	24.3	305	20	US-11-097-143-41352	Sequence 41352, A
16	362.5	24.2	83	16	US-10-425-115-307142	Sequence 307142, A
17	331.5	22.1	321	15	US-10-343-357-5	Sequence 5, Appli
18	326	21.7	577	15	US-10-094-749-2701	Sequence 2701, Ap
19	325	21.7	305	20	US-11-097-143-41349	Sequence 41349, A
20	304.5	20.3	292	16	US-10-476-232-2	Sequence 2, Appli
21	282.5	18.8	326	17	US-10-204-921-58	Sequence 58, Appli
22	279.5	18.6	318	15	US-10-369-493-6893	Sequence 6893, Ap
23	274.5	18.3	89	14	US-10-029-386-29445	Sequence 29445, A
24	261.5	17.4	187	16	US-10-476-232-3	Sequence 3, Appli
25	259	17.3	321	16	US-10-425-115-323994	Sequence 323994, A
26	255	17.0	220	14	US-10-106-698-5750	Sequence 5750, Ap
27	252	16.8	377	15	US-10-425-114-47060	Sequence 47060, A
28	249	16.6	322	15	US-10-424-599-207810	Sequence 207810, A
29	249	16.6	333	15	US-10-425-114-43046	Sequence 43046, A
30	248.5	16.6	309	16	US-10-767-701-44853	Sequence 44853, A
31	248.5	16.6	311	16	US-10-425-115-203641	Sequence 203641, A
32	247.5	16.5	318	18	US-10-491-467-52	Sequence 52, Appli
33	246.5	16.4	180	9	US-09-860-670-125	Sequence 125, App
34	246.5	16.4	180	14	US-10-103-313-490	Sequence 490, App
35	246.5	16.4	180	15	US-10-227-646-125	Sequence 125, App
36	246.5	16.4	183	14	US-10-103-313-340	Sequence 340, App
37	246.5	16.4	343	15	US-10-424-599-276804	Sequence 276804, A
38	244.5	16.3	309	16	US-10-437-963-107839	Sequence 107839, A
39	243.5	16.2	607	16	US-10-723-860-3797	Sequence 3797, Ap
40	243	16.2	310	16	US-10-425-115-203640	Sequence 203640, A
41	243	16.2	318	15	US-10-425-114-70549	Sequence 70549, A
42	243	16.2	324	15	US-10-425-114-41280	Sequence 41280, A
43	241.5	16.1	310	16	US-10-425-115-239676	Sequence 239676, A
44	241.5	16.1	368	15	US-10-425-114-46497	Sequence 46497, A
45	241.5	16.1	427	15	US-10-108-260A-2833	Sequence 2833, Ap

#### ALIGNMENTS

RESULT 1  
US-10-764-425-157  
; Sequence 157, Application US/10764425  
; Publication No. US20040146921A1  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Pharmaceuticals Corporation  
; APPLICANT: Eveleigh, Deepa  
; APPLICANT: Bigwood, Douglas  
; APPLICANT: Taylor, Ian  
; TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE  
; FILE REFERENCE: 5151  
; CURRENT APPLICATION NUMBER: US/10764,425  
; CURRENT FILING DATE: 2004-01-23  
; PRIOR APPLICATION NUMBER: 60/442,582  
; PRIOR FILING DATE: 2003-01-24  
; NUMBER OF SEQ ID NOS: 191  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 157  
; LENGTH: 284  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-764-425-157

Query Match	100.0%	Score	1500	DB	18	Length	284
Best Local Similarity	100.0%	Pred. No.	1.8e-148				
Matches	284	Conservative	0	Mismatches	0	Indels	0
						Gaps	0
QY	1	MFDKRLPYVALDVLCLLAGLPFAILTSRHTPFGVFCNDESIKYPKYKEDTIPVALLG	60				
Db	1	MFDKRLPYVALDVLCLLAGLPFAILTSRHTPFGVFCNDESIKYPKYKEDTIPVALLG	60				
QY	61	GIIPPSITVIILGETLSVYCNLLHNSPIRNNYIATIKYKATGTLFGAAASQSLTDIAK	120				
Db	61	GIIPPSITVIILGETLSVYCNLLHNSPIRNNYIATIKYKATGTLFGAAASQSLTDIAK	120				

QY 121 YSIGRLRPHFLDVCDDPWSKINGSDGYIEYICRGNAERVKEGRLSFYSGHSFSMYCML 180  
Db 121 YSIGRLRPHFLDVCDDPWSKINGSDGYIEYICRGNAERVKEGRLSFYSGHSFSMYCML 180  
QY 181 FVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQGALVAI 240  
Db 181 FVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQGALVAI 240  
QY 241 LVAVVYSDFFKERTSFKEKEEDSHHTLHETPTTGNHYPNSHQ 284  
Db 241 LVAVVYSDFFKERTSFKEKEEDSHHTLHETPTTGNHYPNSHQ 284

RESULT 2  
US-10-643-795A-136  
; Sequence 136, Application US/10643795A  
; Publication No. US20040241703A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN FRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU  
; APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; FILE REFERENCE: P5026R1-US  
; CURRENT APPLICATION NUMBER: US/10/643,795A  
; CURRENT FILING DATE: 2003-08-19  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-08-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/413,192  
; PRIOR FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: US 60/419,008  
; PRIOR FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: US 60/426,847  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US 60/484,959  
; PRIOR FILING DATE: 2003-07-02  
; NUMBER OF SEQ ID NOS: 158  
; SEQ ID NO 136  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-643-795A-136

Query Match 99.0%; Score 1485.5; DB 16; Length 289;  
Best Local Similarity 97.9%; Pred. No. 6.3e-147;  
Matches 283; Conservative 1; Mismatches 0; Indels 5; Gaps 1;  
QY 1 MFDKTRLPYVALDVLVCLLAGLPFAI-----LTSRHTPFQRCVFCNDESIKYPYKEDTIP 55  
Db 1 MFDKTRLPYVALDVLVCLLAGLPFAIFTSRHITSRHTPFQRCVFCNDESIKYPYKEDTIP 60  
QY 56 YALLGGIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYKAIGTFLFGAAASQSL 115  
Db 61 YALLGGIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYKAIGTFLFGAAASQSL 120  
QY 116 TDIKYSIGRLRPHFLDVCDDPWSKINGSDGYIEYICRGNAERVKEGRLSFYSGHSFS 175  
Db 121 TDIKYSIGRLRPHFLDVCDDPWSKINGSDGYIEYICRGNAERVKEGRLSFYSGHSFS 180  
QY 176 MYCMLFVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQG 235  
Db 181 MYCMLFVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQG 240  
QY 236 ALVAILVAVVYSDFFKERTSFKEKEEDSHHTLHETPTTGNHYPNSHQ 284

Db 241 ALVAILVAVVYSDFFKERTSFKEKEEDSHHTLHETPTTGNHYPNSHQ 289  
RESULT 3  
US-10-948-518-136  
; Sequence 136, Application US/10948518  
; Publication No. US20050064492A1  
; GENERAL INFORMATION:  
; APPLICANT: FREDERIC J. DESAUVAGE  
; APPLICANT: GRETCHEN FRANTZ  
; APPLICANT: KENNETH J. HILLAN  
; APPLICANT: PAUL POLAKIS  
; APPLICANT: ANDREW POLSON  
; APPLICANT: VICTORIA SMITH  
; APPLICANT: SUSAN D. SPENCER  
; APPLICANT: THOMAS D. WU  
; APPLICANT: ZEMIN ZHANG  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; FILE REFERENCE: P5026R1-US  
; CURRENT APPLICATION NUMBER: US/10/948,518  
; CURRENT FILING DATE: 2004-09-22  
; PRIOR APPLICATION NUMBER: US/10/643,795  
; PRIOR FILING DATE: 2003-08-19  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-08-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; PRIOR APPLICATION NUMBER: US 60/413,192  
; PRIOR FILING DATE: 2002-09-23  
; PRIOR APPLICATION NUMBER: US 60/419,008  
; PRIOR FILING DATE: 2002-10-15  
; PRIOR APPLICATION NUMBER: US 60/426,847  
; PRIOR FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US 60/484,959  
; PRIOR FILING DATE: 2003-07-02  
; NUMBER OF SEQ ID NOS: 158  
; SEQ ID NO 136  
; LENGTH: 289  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-948-518-136  
Query Match 99.0%; Score 1485.5; DB 17; Length 289;  
Best Local Similarity 97.9%; Pred. No. 6.3e-147;  
Matches 283; Conservative 1; Mismatches 0; Indels 5; Gaps 1;  
QY 1 MFDKTRLPYVALDVLVCLLAGLPFAI-----LTSRHTPFQRCVFCNDESIKYPYKEDTIP 55  
Db 1 MFDKTRLPYVALDVLVCLLAGLPFAIFTSRHITSRHTPFQRCVFCNDESIKYPYKEDTIP 60  
QY 56 YALLGGIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYKAIGTFLFGAAASQSL 115  
Db 61 YALLGGIIPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYKAIGTFLFGAAASQSL 120  
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Db 121 TDIKYSIGRLRPHFLDVCDDPWSKINGSDGYIEYICRGNAERVKEGRLSFYSGHSFS 180  
QY 176 MYCMLFVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQG 235  
Db 181 MYCMLFVALYLOARMKGDWARLLRPTLQFGLVAVSIYVGLSRVDYKHHWSDVLTGLIQG 240  
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Db 241 ALVAILVAVVYSDFFKERTSFKEKEEDSHHTLHETPTTGNHYPNSHQ 289  
RESULT 4  
US-10-655-601-1  
; Sequence 1, Application US/10655601  
; Publication No. US20040137522A1

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; GENERAL INFORMATION:
; APPLICANT: Feany, Mel B.
; APPLICANT: Shulman, Joshua M.
; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy
; FILE REFERENCE: 7570/73251
; CURRENT APPLICATION NUMBER: US/10/655,601
; CURRENT FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 285
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-655-601-1

Query Match      88.0%; Score 1320.5; DB 16; Length 285;
Best Local Similarity 88.9%; Pred. No. 1.2e-129;
Matches 255; Conservative 8; Mismatches 19; Indels 5; Gaps 3;

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Db 1 MFDKTRLPYVALDVLVCLVLAGLPFAILVTLKLGQIVPFQGFVFCNDESIKYPYKEDTI 60
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QY 58 LIGGIIIPSIIVILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTD 117
   :||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 ILVVGGLPIS--SIIILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTD 118
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QY 118 IAKYSIGRLRPHFLDVCDDPWSKINGSDGYEYICRGNAERVKEGRLSFYSGHSFSMW 177
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Db 119 IAKYSIGRLRPHFLDVCDDPWSKINGSDGYEYICRGNAERVKEGRLSFYSGHSFSMW 178
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QY 178 CMLFVALYIQAQMGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLTQAL 237
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 179 CMLFVALYIQAQMGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLTQAL 238
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 238 VAILVAVYVDFPKERTSKERKEDSHTTLHETPTTGNHYPSNHOP 284
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 239 VAILVAVYVDFPKERTSKERKEDSHTTLHETPTTGNHYPSNHOP 285
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RESULT 5
US-10-287-226-346
; Sequence 346, Application US/10287226
; Publication No. US20040086875A1
; GENERAL INFORMATION:
; APPLICANT: Agee, Michele L.,
; APPLICANT: Alsobrook, John P.,
; APPLICANT: Berghs, Constance,
; APPLICANT: Boldog, Ference,
; APPLICANT: Burgess, Catherine E.,
; APPLICANT: Chant, John S.,
; APPLICANT: Chaudhuri, Amitabha,
; APPLICANT: DiPippo, Vincent A.,
; APPLICANT: Edinger, Shlomit R.,
; APPLICANT: Eisen, Andrew,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gangolli, Esha A.,
; APPLICANT: Gorman, Linda,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Khrantsov, Nikolai,
; APPLICANT: Li, Li,
; APPLICANT: Malyankar, Uriel M.,
; APPLICANT: Macbougali, John R.,
; APPLICANT: Mezes, Peter S.,
; APPLICANT: Miller, Charles E.,
; APPLICANT: Millet, Isabelle,
; APPLICANT: Ooi, Chean Eng,
; APPLICANT: Ort, Tatiana,
; APPLICANT: Padigaru, Muralidhara,
; APPLICANT: Patturajan, Meera,
; APPLICANT: Rastelli, Luca,
```

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; APPLICANT: Rieger, Daniel K.,
; APPLICANT: Rothenberg, Mark E.,
; APPLICANT: Shenoy, Suresh G.,
; APPLICANT: Spaderina, Steven K.,
; APPLICANT: Spytek, Kimberley A.,
; APPLICANT: Taupier, Jr., Raymond J.,
; APPLICANT: Vernhet, Corine A.M.,
; APPLICANT: Zerhusen, Bryan D.,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-480C
; CURRENT APPLICATION NUMBER: US/10/287,226
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/334,421
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,392
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/360,148
; PRIOR FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/364,000
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/404,821
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 60/334,526
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,409
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/364,227
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/334,027
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: 60/331,641
; PRIOR FILING DATE: 2001-11-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 673
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 346
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-226-346

Query Match      75.6%; Score 1134; DB 15; Length 221;
Best Local Similarity 100.0%; Pred. No. 3.2e-110;
Matches 214; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 71 IILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTDIAKYISIGRLRPHF 130
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 8 IILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTDIAKYISIGRLRPHF 67
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 131 LDVCDPWSKINGSDGYEYICRGNAERVKEGRLSFYSGHSFSMWYCNLFVALYIQAQM 190
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 68 LDVCDPWSKINGSDGYEYICRGNAERVKEGRLSFYSGHSFSMWYCNLFVALYIQAQM 127
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 191 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLTQALVAILVAVYVDF 250
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 128 KGDWARLLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLTQALVAILVAVYVDF 187
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 251 KERTSFKERKEDSHTTLHETPTTGNHYPSNHOP 284
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 188 KERTSFKERKEDSHTTLHETPTTGNHYPSNHOP 221
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 6
US-10-287-226-348
; Sequence 348, Application US/10287226
; Publication No. US20040086875A1
; GENERAL INFORMATION:
; APPLICANT: Agee, Michele L.,
; APPLICANT: Alsobrook, John P.,
; APPLICANT: Berghs, Constance,
; APPLICANT: Boldog, Ference,
; APPLICANT: Burgess, Catherine E.,
```



Db 66 DRLYSRDF-NNYAAVYKVLGTFGLGAAVVSQSLTDLAKYIMIGRLRPNFLAVCDPWSRV 124  
QY 142 NCSGDGYIEY-YICRGAERVKGRLSFYSGHSFMYCMLFVALYLOARMKGDWARLRP 200  
Db 125 NCS-VVQLEKVCGRNPADVTEARLFSYSGHSFMYCMLFVALYLOARMKGDWARLRP 183  
QY 201 TLOFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQQALVAILVAIVYVSDPFKERTSFKERK 260  
Db 184 TVQFFLVAFALYVGYTRVSDYKHHWSDVLTGLIQQALVAILVAIVYVSDPFKERTSFKERK 243  
QY 261 EE--DSHTTLHETPTTG----NHYPNNH 282  
Db 244 EELERKPSLSLTTLGEADHNYGYPH 271

## RESULT 8

US-10-812-238A-13  
; Sequence 13, Application US/10812238A  
; Publication No. US20050002904A1  
; GENERAL INFORMATION:  
; APPLICANT: Humtsoe, Joseph O.  
; TITLE OF INVENTION: Uses of Vascular Endothelial Growth Factor  
; TITLE OF INVENTION: and type I Collagen Inducible Protein (VCIP)  
; FILE REFERENCE: D6563  
; CURRENT APPLICATION NUMBER: US/10/812,238A  
; CURRENT FILING DATE: 2004-03-29  
; PRIOR APPLICATION NUMBER: US 60/458,164  
; PRIOR FILING DATE: 2003-03-27  
; NUMBER OF SEQ ID NOS: 36  
; SEQ ID NO 13  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; NAME/KEY: CHAIN  
; OTHER INFORMATION: human VCIP  
US-10-812-238A-13

Query Match 47.8%; Score 716.5; DB 17; Length 311;  
Best Local Similarity 57.1%; Pred. No. 3.1e-66;  
Matches 144; Conservative 38; Mismatches 67; Indels 3; Gaps 3;

QY 6 RLPPYVALDVLVLLAGLPAIL-TSRHTPFQRCVFCNDESIKYPYKE-DTIPYALGGII 63  
Db 33 RVLLICLDLFCFLMAGLPFLIETSTIKPYHGRFYCNDESIKYPLKTGTINDAVLCVAG 92  
QY 64 IPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTDIAKYSI 123  
Db 93 IVIAILAIITGEFYRIY-YLKRSRSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKYSI 151  
QY 124 GRLRPHFLDVCDDPWSKINCSDGYIEYICRGAERVKGRLSFYSGHSFMYCMLFVA 183  
Db 152 GRLRPHFLSVCPNDFSQINCSEGYIQNYRCRGDSDKVQEARSKFFSGHASFSMYTMLYLV 211  
QY 184 LYLQARMKGDWARLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQQALVAILVA 243  
Db 212 LYLQARFTWRGARLLRPLQLFTLIMMAFYTGLSRSDYKHHWSDVLTGLIQQALVAILVA 271  
QY 244 VVVSDFPKERTS 255  
Db 272 FFFVSDLFKTKT 283

## RESULT 9

US-10-655-601-2  
; Sequence 2, Application US/10655601  
; Publication No. US20040137522A1  
; GENERAL INFORMATION:  
; APPLICANT: Feany, Mel B.  
; TITLE OF INVENTION: Genes and Proteins Altering Tau-Related Neuropathy  
; FILE REFERENCE: 7570/73251

; CURRENT APPLICATION NUMBER: US/10/655,601  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 2  
; LENGTH: 311  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-655-601-2

Query Match 47.4%; Score 710.5; DB 16; Length 311;  
Best Local Similarity 57.2%; Pred. No. 1.3e-65;  
Matches 143; Conservative 37; Mismatches 67; Indels 3; Gaps 3;

QY 6 RLPPYVALDVLVLLAGLPAIL-TSRHTPFQRCVFCNDESIKYPYKE-DTIPYALGGII 63  
Db 33 RVLLICLDLFCFLMAGLPFLIETSTIKPYHGRFYCNDESIKYPLKTGTINDAVLCVAG 92  
QY 64 IPFSIIIVILGETLSVYCNLLHNSFIRNNYIATYIYKAIGTFLFGAAASQSLTDIAKYSI 123  
Db 93 IVIAILAIITGEFYRIY-YLKRSRSTIQNPYVAALYKQVGCFLFGCAISQSFTDIAKYSI 151  
QY 124 GRLRPHFLDVCDDPWSKINCSDGYIEYICRGAERVKGRLSFYSGHSFMYCMLFVA 183  
Db 152 GRLRPHFLSVCPNDFSQINCSEGYIQNYRCRGDSDKVQEARSKFFSGHASFSMYTMLYLV 211  
QY 184 LYLQARMKGDWARLRPTLQFGLVAVSIYVGLSRVSDYKHHWSDVLTGLIQQALVAILVA 243  
Db 212 LYLQARFTWRGARLLRPLQLFTLIMMAFYTGLSRSDYKHHWSDVLTGLIQQALVAILVA 271  
QY 244 VVVSDFPKERTS 253  
Db 272 FFFVSDLFKTK 281

## RESULT 10

US-11-097-143-2046  
; Sequence 2046, Application US/11097143  
; Publication No. US2005020858A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2046  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: DROSOPHILA

Query Match 35.7%; Score 535; DB 20; Length 372;

Best Local Similarity 44.8%; Pred. No. 4.2e-47;  
Matches 121; Conservative 44; Mismatches 85; Indels 20; Gaps 7;  
QY 3 DKTRLPYVALDVLVLLAGLPAFALTSRHTPFGVFCNDESIKYPKEDTTPYALLG-- 60  
Db 76 NKRLRCVLGLDVLILLACGFPILLFLLGEPYKRGFFCDDLSLKHPPHDSVTRNWMWLYFI 135  
QY 61 GIIIPSIIVI---LGETLSVYCN-LHNSGFIRNNY-----IATYKAIGTFUFGAAA 111  
Db 136 GAVIPGVGFIIVEIISQNAKQDNGNATSRRYVFMNYELPDWMECYKKIGIYAFGAVL 195  
QY 112 QSLSLTDIAKYSIGRLRPHFLDVCDDPSK-INCSDG-----YIEYICRG---NAERVKE 162  
Db 196 SOLTTDIAKYSIGRLRPHFLDVCDDPSK-INCSDG-----YIEYICRG---NAERVKE 255  
QY 163 GRLSFYSGHSSFSMYCMLFVALYLQARMKGDWARLLRPTLQGLVAVSYVGLSRVSDYK 222  
Db 256 NELSFPSSGHSSFTFFAMVYVLYLQARMTWGSKLLRHLLQFLFINVAVYALSRSVDYK 315  
QY 223 HWSVDVLTGLIOGALVAILVAVVYVDFPKE 252  
Db 316 HWSVDVLTGLIOGALVAILVAVVYVDFPKE 345

## RESULT 11

US-11-097-143-14997  
; Sequence 14997, Application US/11097143  
; Publication No. US2005020858A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14997  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-14997

Query Match 29.4%; Score 440.5; DB 20; Length 340;  
Best Local Similarity 35.9%; Pred. No. 3e-37;  
Matches 111; Conservative 57; Mismatches 102; Indels 39; Gaps 11;  
QY 3 DKTRLPYVALDVLVLLAGLPAFALTSRHTPFGVFCNDESIKYPKEDTTPYALLGFI 62  
Db 31 DRMTORLVELLVVVLVLPICVFEAVDPVRGFFCDDLSISYFQDNTITPVMGLI 90  
QY 63 I---IPFSIIVII-----LGETLSVYCNLLHNSGFIRNNYIATYKAIGT-----FLFGA 109  
Db 91 VGLLPALVMMVVEYVSHLRAGD-ISATVDLLGWR-----VSTWYVELGRQSTYFCFL 142

QY 110 AASQSLTDIAKYSIGRLRPHFLDVCDDP---DWSKINCSG-----GYIEYICRG---NAE 158  
Db 143 LTTDFATSVGKYITIGRLRPHFLAVCQPIADGSM--CSDPVNHLHRYMENYDCAGEGFTVE 200  
QY 159 RVKEGRLSFYSGHSSFSMYCMLFVALYLQARMKGDWARLLRPTLQGLVAVSYVGLSRV 218  
Db 201 DVQRARLSFPGSHSLAFYMIYVLYLQARKITWRSKLSRHFVQFVAVVWAWYALSRSV 260  
QY 219 SDYKHHSVDVLTGLIOGALVAILVAVVYVDFPKE---FKERKEEDSHTTLHE--TPT 273  
Db 261 MDHWHHSVDVLSGSLGVAGALITAHYIARWFDDCASNLGSLRRENTAATLQEEVCPT 320  
QY 274 TGNHYPSNH 282  
Db 321 TTPPYSVNN 329

## RESULT 12

US-11-097-143-24018  
; Sequence 24018, Application US/11097143  
; Publication No. US2005020858A1  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; TITLE OF INVENTION: DROSOPHILA GENES.  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24018  
; LENGTH: 334  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-24018

Query Match 27.3%; Score 410; DB 20; Length 334;  
Best Local Similarity 37.5%; Pred. No. 4.7e-34;  
Matches 99; Conservative 46; Mismatches 91; Indels 28; Gaps 11;  
QY 31 HTPFGVFCNDESIKYPKEDTI--PYALLGGIIPFSIIIVILGETLSVYCNLLHNS 88  
Db 2 HT-FKRGFCSDLSIRYPYKDCITIVPMLLLMMLLLPMLFVAVV--EIMRI-CKRFRRL 57  
QY 89 FIRNNYIATYKAIGTFUFGAAAOSLTDIAKYSIGRLRPHFLDVCDDP---DWSKINCSG 145  
Db 58 YERN-----LWRAEATFSGFIATYLTTELAKHAVGLRPHFPHGQCPLDDGS--SCSD 110  
QY 146 -----GYIEYICRGN---AERVKEGRLSFYSGHSSFSMYCMLFVALYLQARMKG-DWAR 196  
Db 111 LQNAELYVEQFCHCTNNNLSTROIRELHVSFPASLSLSFSYMWLLALYVHGVWRGGVVR 170  
QY 197 LLRPTLQGLVAVSYVGLSRVSDYKHHSVDVLTGLIOGALVAILVAVVYVDFPKEKRTSF 256  
Db 171 VLRHVQLQFLMLMAALCVSLRVADYWHHSVDVLAGALLGVTYAAITAAVGNLLRQTS 230

QY 257 KERKEED---SHTTLHETPTGNH 277  
 Db 231 TGRIPPSLNVSHLHQLWADNNN 254

## RESULT 13

US-11-097-143-912  
 ; Sequence 912, Application US/11097143  
 ; Publication No. US20050208558A1

GENERAL INFORMATION:

APPLICANT: Venter, J. Craig

APPLICANT: et al.

TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID

TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DROSOPHILA GENES.

FILE REFERENCE: CL000728

CURRENT APPLICATION NUMBER: US/11/097,143

PRIOR FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: 60/157,832

PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: 60/160,191

PRIOR FILING DATE: 1999-10-19

PRIOR APPLICATION NUMBER: 60/161,932

PRIOR FILING DATE: 1999-10-28

PRIOR APPLICATION NUMBER: 60/164,769

PRIOR FILING DATE: 1999-11-12

PRIOR APPLICATION NUMBER: 60/173,383

PRIOR FILING DATE: 1999-12-28

PRIOR APPLICATION NUMBER: 60/175,693

PRIOR FILING DATE: 2000-01-12

PRIOR APPLICATION NUMBER: 60/184,831

PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: 60/191,637

PRIOR FILING DATE: 2000-03-23

NUMBER OF SEQ ID NOS: 43008

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 912

LENGTH: 246

TYPE: PRT

ORGANISM: DROSOPHILA

US-11-097-143-912

Query Match 26.3%; Score 395; DB 20; Length 246;  
 Best Local Similarity 37.9%; Pred. No. 1.2e-32;  
 Matches 88; Conservative 42; Mismatches 76; Indels 26; Gaps 7;

QY 35 QRGVFCNDSIKYPYKEDTIP-----YALLGGIIIPFSIIIVII---LGE-----TLNV 79

Db 12 KRGFCDSSLRHPYRDSTMPWSILYLMCGA--LPLTVMLVVEFFRQDKRLHSPFPKST 69

QY 80 YCNLLHNSFIRNNYATYIKAGTFLGAAASQSLTDIAKYSIGRLRPHFLDVCDDPWS 139

Db 70 MCSGVHCLHLELPTWLVECHRMGIFLGLVEQLSTNIAKYSIGRLRPHFTLCQPVNMK 129

QY 140 K-INCSDD---GYIEYVIRCG---NAERVKEGLSFYSYSHSFSMYCMLFVALYLQARM 190

Db 130 DGTTCSDPINAARYIEEFTCAAVDITSKQKMLRSLFPPSGHASFACYSMLYLVILYHRRM 189

QY 191 KGDWARLLRPTLQGLVAVSIYVGLSRVSDYKHNSDVLTLGLIQGALVAILV 242

Db 190 QMKQLRMLCHLLQLFLLMFAWYALTALTRVSDYKHNSDVLGAGSIGITYAVVV 241

## RESULT 14

US-11-097-143-41346

; Sequence 41346, Application US/11097143

; Publication No. US20050208558A1

GENERAL INFORMATION:

APPLICANT: Venter, J. Craig

APPLICANT: et al.

TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID

TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE

; TITLE OF INVENTION: DROSOPHILA GENES.

; FILE REFERENCE: CL000728

; CURRENT APPLICATION NUMBER: US/11/097,143

; CURRENT FILING DATE: 2005-04-04

; PRIOR APPLICATION NUMBER: 60/157,832

; PRIOR FILING DATE: 1999-10-05

; PRIOR APPLICATION NUMBER: 60/160,191

; PRIOR FILING DATE: 1999-10-19

; PRIOR APPLICATION NUMBER: 60/161,932

; PRIOR FILING DATE: 1999-10-28

; PRIOR APPLICATION NUMBER: 60/164,769

; PRIOR FILING DATE: 1999-11-12

; PRIOR APPLICATION NUMBER: 60/173,383

; PRIOR FILING DATE: 1999-12-28

; PRIOR APPLICATION NUMBER: 60/175,693

; PRIOR FILING DATE: 2000-01-12

; PRIOR APPLICATION NUMBER: 60/184,831

; PRIOR FILING DATE: 2000-02-24

; PRIOR APPLICATION NUMBER: 60/191,637

; PRIOR FILING DATE: 2000-03-23

; NUMBER OF SEQ ID NOS: 43008

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 41346

; LENGTH: 341

; TYPE: PRT

; ORGANISM: DROSOPHILA

US-11-097-143-41346

Query Match 25.8%; Score 386.5; DB 20; Length 341;

Best Local Similarity 36.0%; Pred. No. 1.4e-31;

Matches 98; Conservative 43; Mismatches 82; Indels 49; Gaps 10;

QY 7 LPYVALDVLCVLLAGLPFAILTSRHTPPRGVFCNDSIKYPYKEDTIPYALLGGII--I 64

Db 15 LIWVALSVASVLLHKM-----GRPFRRGFCGDETLSPARDGTSSKVIIVLVG 66

QY 65 PFSIIIVIL-----GETLSVYCNLLHNSFIRNNYATYIKAGTFLFPGA 110

Db 67 PNAVIVVVELFROLPGPLREAGGRKDS--CRIAHR-----LGVLRQVIFYLYGLA 116

QY 111 ASQSLTDIAKYSIGRLRPHFLDVCDD---PDWSKINCSDG-----YIEYVICRGNAE--- 158

Db 117 MVTFTTMTLTKLCGLRLRPHFLAVCPMLPDGS--SCDAQNGLGRYIDSPFC-SNANWTDY 173

QY 159 RVKEGRLSPYSYSHSFSMYCMLFVALYLQARMKGDWARLLRPTLQGLVAVSIYVGLSRV 218

Db 174 QPKELYQSPFSGHASNMYAMLYLAIYLOALSTRVSKLLKHLLOFLFVFMFGYVSLTRI 233

QY 219 SDYKHNSDVLTLGLIQGALVAILVAVVVSDF 250

Db 234 IDYHHWSVDVLAGAALGVVFAWLTSAVADLP 265

## RESULT 15

US-11-097-143-41352

; Sequence 41352, Application US/11097143

; Publication No. US20050208558A1

GENERAL INFORMATION:

APPLICANT: Venter, J. Craig

APPLICANT: et al.

TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID

TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE

TITLE OF INVENTION: DROSOPHILA GENES.

FILE REFERENCE: CL000728

CURRENT APPLICATION NUMBER: US/11/097,143

CURRENT FILING DATE: 2005-04-04

PRIOR APPLICATION NUMBER: 60/157,832

PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: 60/160,191

PRIOR FILING DATE: 1999-10-19

PRIOR APPLICATION NUMBER: 60/161,932

PRIOR FILING DATE: 1999-10-28

PRIOR APPLICATION NUMBER: 60/164,769

